HEALTH BULLETIN BOARD

THE SHILLONG TIMES (24-10-2016 PG.7)

http://epaper.theshillongtimes.com/epapermain.aspx?pgno=7&eddate=2016-10-24&edcode=820009

Onion compound may help fight ovarian cancer: Study

natural compound isolated from onions may help treat the most common type of ovarian cancer, a new study has claimed. Researchers from Kumamoto University in Japan studied the effects of a natural onion compound, onionin A (ONA), on a preclinical model of epithelial ovarian cancer (EOC) both in vivo and in vitro.

Previously, researchers found that ONA suppressed pro-tumour activation of host myeloid cells.

According to a
2014 review of
cancer medicines
from the World
Health Organisation, EOC is the most
common type of ovarian
cancer and has a five-year
survival rate of about 40
per cent, researchers said.

It has a relatively low lifetime risk that is less than one per cent, but that can increase up to 40 per cent if there is a family history of the disease.

A majority of patients (80 per cent) experience a

relapse after their initial treatment with chemotherapy; therefore, a more effective line of treatment is needed.

The group's in vitro experiments showed that EOCs, which usually proliferate in the presence of pro-tumour M2 macrophages, showed

growth after introduction of ONA.

This was thought to be due to ONA influence on STAT3, a transcription factor known to be involved in both M2 polarisation and cancer cell proliferation.

The team also found that ONA inhibited the pro-tumour functions of myeloid-derived suppressor cells (MDSC), which are associated with the suppression of the antitumour immune response of host lymph-ocytes, by using preclinical sarcoma model.

ONA was also found to enhance the effects of anti-cancer drugs by strengthening their anti-proliferation capabilities.

Moreover, experiments on an ovarian cancer murine model that investigated the effects of orally administered ONA resulted in longer lifespans and inhibited ovarian cancer tumour development.

This was considered to be a result of ONA's suppression of M2 polarised macrophages, researchers said.

The study shows that ONA reduces the progression of malignant ovarian cancer tumours by interfering with the pro-tumour function of myeloid cells. (PTI)

THE TELEGRAPH (24-10-2016 Monday Pg.14)

http://epaper.telegraphindia.com/paper/14-0-24@10@2016-1008.html

There is no viable treatment for pancreatic cancer but two Indian researchers are pursuing possible remedies.

T.V. Jayan reports

heir similarities are rather strikling. Priyabrata Mukherjee and Yangsom Bhutis Wangsom Bhutis Scientists in the Scientists in the Musher want to target is often branded a death sentence as drugs and radiation have little impact on the disease. The scientists in the mour monster. They want to target is often branded a death sentence as drugs and radiation have little impact on the disease. The scientists in the more deadly as it has a very high mortality rate. The scientists in the scientists was a scientist of the scientists of the scientists of the scientists has remained relative. Apple founder Steve Jobs succumbed to a rare form of it in 2011. In two unconnected studies last week, researchers led by Mukherwelk, researchers led by Mukhermeans to stem the growth of pancreatic cancer cells, thereby raising hopes of finding potential therepained founder in the scientists of the scientists.

cessfully, the initial research has held out promise.

Mukherjee's team, for instance, has shown using mouse models that gold nanoparticles can actually reduce tumour cell proliferation and migration. Their work appropriate to the propriate their work appropriate their work

deaths in the world.
Mukherjee and Bhutia hail
from neighbouring states in India
— West Bengal and Sikkim — and
ing states in the US — Oklahoma
and Texas. Both their research
teams also have an unusually large
number of researchers of Indian
descont.
Mukherjee's team at the

number of researchers of inquan-descent. While Mukherjee's team at the University of Okhlahoma Health Charles of Okhlahoma Health Charles of Okhlahoma Health Charles of Okhlahoma Health Charles of Okhlahoma Health Ganoparticles to check tumour growth, Bhutia and his colleagues Sciences Center are targeting a protein that supplies amino acids

to cancer cells. Blocking it will styme the tumout's potential to appead to healthy cells. Pancreatic cancer is a silent killer. Patients do not exhibit any symptoms till the disease enters an symptoms till the disease enters an appearance of the symptoms till the disease enters and the symptoms till the disease enters and the symptoms till the disease the symptoms till the disease is described by the sease of the symptoms to the symptoms to

around tumour cells is important because emerging evidence has neighbours help cancer cells avoid the effect of chemotherapy drugs.

"It is critical to understand how different cells in the tumour midifferent cells in the cells are cells in the cell

tion and migration which are implicated in the spread of tumour to other organs.

This particularly targets the cancer promoting effects of a class cancer promoting effects of a class cells. In a healthy pancreas, stellate cells exist in a dormant stage, storing abundant supplies of vitamin adenocarcinoma—the most common and aggressive type of pancreatic cancer that affects 95 percentive tissue around the tumour spread to the control of the control of