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Source: Universidad de Granada

Olive oil has become part of the

cause of AIDS - thanks to the

team, from the University of

Immunodeficiency Virus (HIV) - the

research carried out by the Bionat

Granada, headed by Prof. Andrés García-Granados, senior lecturer in

shows that maslinic acid - a natural

serin-protease, an enzyme used by HIV to release itself from the

infected cell into the extracellular

environment and, consequently, to

spread the infection into the whole

Granada determined that the use of

olive-pomace oil can produce an

Maslinic or crataegolic acid is a

pentacyclic terpene with antioxidant

and anticancer effects found in wax from olive skin, alongside oleanolic

body. These scientists from

80% slowing down in AIDS

spreading in the body.

Organic Chemistry. Their work

product extracted from dry olive-

pomace oil in oil mills – inhibits

fight against the Human

Date: July 11, 2007

More on: Heartburn, Genetics, Molecular

Biology Control of the Property of th Biology, Gastrointestinal Problems, Cell Biology, HIV

## Counts Molecular-targeted therapies point toward revolutionary

**Hitting Cancer Where it** 

change in the treatment of cancer. Listen as experts describe how these drugs are Carlos III in Madrid, verified that maslinic acid – found in wax from olive bking-used today, and what may lie ahead.

Read Transcript

inhibits serin-protease, the enzyme used by HIV to release itself from the infected cell into the extracellular environment.

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acid. The effects of this compound in the fight against AIDS are simultaneously beir studied in the UGR and in Hospital Carlos III in Madrid by a team headed by Prof. V

Maslinic acid innovative properties stem from its powerful protease-inhibition activity allowing researchers from Granada to register two patents on behalf of the UGR to produce drugs for treatment of diseases caused by protozoa Cryptosporidium – a p causing small intestine infection and diarrhoea – and by HIV. The University of Gran has already registered almost ten other patents related to this compound's properti-

Maslinic acid is also a very active compound in opportunistic parasitic infections ser affecting HIV patients.

In trials carried out by these researchers with the MT2 cell line, for concentrations o and 30 μg/ml maslinic acid inhibited replication of a primary HIV-1 isolate. For 25 μg decrease in the cytopathic effect and in p24 antigen levels in the supernatant culture medium was detected. For 30 µg/ml, there was total absence of the cytopathic effect also a decrease of p24 antigen levels.

## **Pilot Plant**

The UGR Faculty of Sciences hosts a unique maslinic acid production pilot plant where the company MANINVEST S.L. - staffing scientists from the UGR departments of OrgaRelated News Topics

Chemistry, Biochemistry and Parasitology, as well as a coordinating economist – is ● Heartburn carrying out research on technology implementation and business programmes tuning Genetics aimed at making manitol and maslinic and oleanolic acids programmes more profitableMolecular Biology

Whilst manitol is obtained from olive oil waste water (alpechín) and olive-tree leaves better Science Stories acids are extracted from dry olive-pomace oil (orujo) produced at the olive-milling stage olive Oil Contains Natural Anti-inflammatory during olive oil elaboration process.

To this day, only oleanolic acid – produced in China – has been marketed. However, maslinic acid has gained importance as it is not still on the market and has a greater biological activity.

Prof. Andrés García-Granados's team intends to continue working in the design and implementation of new maslinic acid by-products to fight against HIV, as well as in othenterventions For 9-11 Workers innovative research projects financed by the Spanish Ministry of Science and Technologysmopolitan Lifestyle Could Allay Cancer and the Andalusian Regional Government.

Note: This story has been adapted from a news release issued by Universidad de Related Encyclopedia Articles Granada.

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