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Urolithin A (**UroA**) is a major **metabolite of ellagic acid** produced following **microbial catabolism** in the **gut**. Emerging evidence has suggested that **UroA modulates energy metabolism** in various cells. However, UroA's physiological functions related to obesity and insulin resistance remain unclear.

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Urolithins (Uros) are ellagitannins and **ellagic** acid-derived **gut microbiota metabolites** that reach high concentrations in the human colon. They were postulated to be as **potential** anticancer agents in different CRC models, but their role as promoters of cellular senescence has ...

Author: Juan Antonio Giménez-Bastida, María Á... **Publish Year:** 2020

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https://onlinelibrary.wiley.com/doi/10.1002/mnfr.200900152

Occurrence of **urolithins**, **gut microbiota ellagic acid metabolites** and proliferation markers expression response in the human **prostate gland** upon consumption of walnuts and pomegranate juice. Abstract. Epidemiology supports the important role of nutrition in **prostate cancer** (PCa) prevention.

Cited by: 174 **Author:** Antonio González-Sarrías, Juan A. Giméne...
Publish Year: 2010

Biological Significance of Urolithins, the Gut Microbial ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3679724

May 28, 2013 - **Urolithin** A was produced from **ellagic acid**, punicalagin, and an **ellagitannin-rich walnut** extract by **fecal microbiota** from six volunteers, demonstrating for the first time the production of **urolithins** by **human gut microbiota** [12].

Cited by: 262 **Author:** Juan Carlos Espín, Mar Larrosa, María Tere...
Publish Year: 2013

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Gut microbiota is considered as hidden **metabolic** '**organ** within an organ' because of its immense effect on health by influencing the host nutrient acquisition, **metabolism**, physiology, and immune functions [1–4]. The human gastrointestinal tract (GIT) harbours complex **microbial** community as high as up to ~10 14 microorganisms. One of the major functions of **gut microbiota** is to **metabolize dietary** components to a spectrum of **metabolites**.

Cited by: 34 **Author:** Piu Saha, Beng San Yeoh, Rajbir Singh, Bha...
Publish Year: 2016

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Safety assessment of **Urolithin A**, a **metabolite** produced by the human **gut microbiota** upon dietary intake of plant derived ellagitannins and **ellagic** acid Author links open overlay panel Jacqueline Heilman a Pénélope Andreux b Nga Tran a Chris Rinsch b William Blanco-Bose b

Cited by: 21 **Author:** Jacqueline Heilman, Pénélope Andreux, Ng...
Publish Year: 2017

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Research progress on the anticarcinogenic actions and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069806

Mar 04, 2014 · The **gut microbiota ellagic** acid-derived **metabolite urolithin** A and its sulfate conjugate are substrates for the drug efflux transporter breast cancer resistance protein (ABCG2/BCRP). J Agric Food Chem 2013; 61:4352-4359

Cited by: 79 **Author:** Hong-Mei Zhang, Lei Zhao, Hao Li, Hao Xu, ...
Publish Year: 2014

In Vitro Bioaccessibility, Human Gut Microbiota ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4632426

Gut Microbiota Metabolites of Compounds of **Padma Hepaten** Although **Terminalia** and **Phyllantus species** as contained in Padma Hepaten are good sources of **chebulic ellagitannins**, the amount of compounds available to absorption after **gastrointestinal digestion** is smaller.

Cited by: 18 **Author:** Daniil N. Olennikov, Nina I. Kashchenko, Na...
Publish Year: 2015

18

Name of Journal: *World journal of Gastroenterology*

Manuscript NO: 54470

Manuscript Type: REVIEW

Potential of the ellagic acid-derived gut microbiota metabolite – Urolithin A in gastrointestinal protection

Małgorzata Kujawska, Jadwiga Jodynis-Liebert

Abstract

Urolithin A (UA) is a metabolic compound generated during the biotransformation of ellagitannins by the intestinal bacteria. The physiologically relevant micromolar concentrations of UA, achieved in the plasma and gastrointestinal tract (GI) after consumption of its dietary precursors, have been revealed to offer GIprotection. The health benefit has been demonstrated to be principally related to anticancer and anti-inflammatory effects. UA has been shown to possess the capability to regulate multiple tumor and inflammatory signaling pathways and to modulate enzyme activity, including those involved in carcinogen biotransformation and antioxidant defense. The purpose of this review is to gather evidence from both *in vitro* and *in vivo* studies showing the potential of UA in GI protection alongside suggested mechanisms by which UA can protect against cancer and inflammatory diseases of

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