

Role of iodine in evolution and carcinogenesis of thyroid, breast and stomach

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Thyroid hormone and breast carcinoma: primary hypothyroidism is associated with a reduced incidence of primary breast carcinoma

M Cristofanilli, Y Yamamura, SW Kau... - *Journal of the ...*, 2005 - Wiley Online Library

BACKGROUND To investigate the role of primary hypothyroidism (HYPT) on breast carcinogenesis, the authors evaluated 1) the association between HYPT and a diagnosis of invasive breast carcinoma and 2) the clinicopathologic characteristics of breast carcinoma in ...

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Seaweed prevents breast cancer?

H Funahashi, T Imai, T Mase, M Sekiya... - *Japanese journal of ...*, 2001 - Wiley Online Library

To investigate the chemopreventive effects of seaweed on breast cancer, we have been studying the relationship between iodine and breast cancer. We found earlier that the seaweed, wakame, showed a suppressive effect on the proliferation of DMBA (dimethylbenz ...

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Assessment of Japanese iodine intake based on seaweed consumption in Japan: a literature-based analysis

TT Zava, DT Zava - *Thyroid research*, 2011 - Springer

Japanese iodine intake from edible seaweeds is amongst the highest in the world. Predicting the type and amount of seaweed the Japanese consume is difficult due to day-to-day meal variation and dietary differences between generations and regions. In addition ...

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Role of iodine in antioxidant defence in thyroid and breast disease

PPA Smyth - *Biofactors*, 2003 - Wiley Online Library

The role played in thyroid hormonogenesis by iodide oxidation to iodine (organification) is well established. Iodine deficiency may produce conditions of oxidative stress with high TSH producing a level of H₂O₂, which because of lack of iodide is not being used to form thyroid ...

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Is there a role for iodine in breast diseases?

S Venturi - *The Breast*, 2001 - Elsevier

It is hypothesized that dietary iodine deficiency is associated with the development of mammary pathology and cancer. A review of the literature on this correlation and of the author's own work on the antioxidant function of iodide in iodide-concentrating extrathyroidal ...

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Inhibition of N-methyl-N-nitrosourea-induced mammary carcinogenesis by molecular iodine (I₂) but not by iodide (I⁻) treatment: Evidence that I₂ prevents cancer ...

P García-Solís, Y Alfaro, B Anguiano, G Delgado... - *Molecular and cellular ...*, 2005 - Elsevier

We analyzed the effect of molecular iodine (I₂), potassium iodide (KI) and a subclinical concentration of thyroxine (T₄) on the induction and promotion of mammary cancer induced by N-methyl-N-nitrosourea. Virgin Sprague-Dawley rats received short or continuous ...

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Iodine in evolution of salivary glands and in oral health

S Venturi, M Venturi - *Nutrition and health*, 2009 - journals.sagepub.com

The authors hypothesize that dietary deficiency or excess of iodine (I) has an important role in oral mucosa and in salivary glands physiology. Salivary glands derived from primitive I-concentrating oral cells, which during embryogenesis, migrate and specialize in secretion of ...

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[Anti-inflammatory properties of a liposomal hydrogel with povidone-iodine \(Repithel®\) for wound healing in vitro](#)

[CJ Beukelman, AJJ Van Den Berg, MJ Hoekstra, R Uhl...](#) - Burns, 2008 - Elsevier

A liposomal hydrogel with 3% povidone-iodine (PVP-ILH, Repithe®) has shown clinical benefit in settings where inflammation and/or reactive oxygen species are thought to impede wound healing (eg, burns, chronic wounds and in smokers). This in vitro study investigated ...

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[Hypothesis: dietary iodine intake in the etiology of cardiovascular disease](#)

[SAH Cann](#) - Journal of the American College of Nutrition, 2006 - Taylor & Francis

This paper reviews evidence suggesting that iodine deficiency can have deleterious effects on the cardiovascular system, and correspondingly, that a higher iodine intake may benefit cardiovascular function. In recent years, public health bodies have aggressively promoted ...

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[Environmental iodine deficiency: a challenge to the evolution of terrestrial life?](#)

[S Venturi, FM Donati, A Venturi, M Venturi](#) - Thyroid, 2000 - liebertpub.com

Iodine is the heaviest and richest in electrons among required elements in the animal diet. Inorganic iodides are necessary for all living vegetable and animal cells, but only the vertebrates have the thyroid gland and its iodinated hormones. In humans, the total amount ...

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