

Author's Accepted Manuscript

The role of chemical elements in melanoma

Angelo M. Facchiano, Francesco Facchiano,
Antonio Facchiano



www.elsevier.com/locate/nhtm

PII: S2307-5023(14)00073-3

DOI: <http://dx.doi.org/10.1016/j.nhtm.2014.11.056>

Reference: NHTM8

To appear in: *New Horizons in Translational Medicine*

Cite this article as: Angelo M. Facchiano, Francesco Facchiano, Antonio Facchiano, The role of chemical elements in melanoma, *New Horizons in Translational Medicine*, <http://dx.doi.org/10.1016/j.nhtm.2014.11.056>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The role of chemical elements in melanoma

Angelo M. Facchiano^a, Francesco Facchiano^{b*}, Antonio Facchiano^{c*}

^aNational Research Council, Institute of Food Science, Avellino, Italy

^bDepartment of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy

^cIstituto Dermopatico dell'Immacolata, IDI-IRCCS, 00167 Rome, Italy

*Corresponding authors

Dr. Antonio Facchiano

Istituto Dermopatico dell'Immacolata, IDI-IRCCS, via Monti di Creta 104, 00167 Rome, Italy
a.facchiano@idi.it; tel. 39-06-66462431; 39-06-89996620

Dr. Francesco Facchiano

Department of Hematology, Oncology and Molecular Medicine, Istituto Superiore di Sanità, Rome, Italy francesco.facchiano@iss.it; tel 39-06-49902059

Abstract

Publication of several studies attest the growing interest to investigate the real impact chemical elements and industrial pollution may play have on the human health.

In the current study we present novel data referring to the occurrence of the name of all chemical elements taken from the Mendeleev table, in the title of PubMed indexed melanoma articles. Nine hundred fifty four manuscripts were found to have in the title field the “melanoma” word and at least one of the 117 chemical elements.

The occurrence of each chemical element in melanoma articles was then compared to the occurrence in epithelioma articles and squamous cell carcinoma articles, unrevealing substantial quantitative differences. Manuscripts having “skin” in the title were used as control manuscripts. The 10 elements most studied in melanoma manuscripts were found to be iodine, oxygen, ruthenium, boron, calcium, carbon, sodium, zinc, iron and technetium, accounting for more than 50% of the 954 identified manuscripts. In all such cases, the occurrence in melanoma manuscripts was found to be largely different as compared to epithelioma articles, as well as squamous cell carcinoma articles.

The role of each of these elements in melanoma is discussed.

Download English Version:

<https://daneshyari.com/en/article/3812419>

Download Persian Version:

<https://daneshyari.com/article/3812419>

[Daneshyari.com](https://daneshyari.com)