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AIR POLLUTION IONIZATION AND CLIMATOTHERAPY

Pasquale Avino[12] Luigi Campanella[26], M. Thangavelu [35], Odoardo M. Calamai[2], Massimo Sperini[2], Mileto Graziano[3], Beatrice Barbolan[3], Angela Zavaglia[3 7], Albina Pisani[23], Cristina M Lucchetta[3], Domenico Tamburi[3], Antonio Aceti[26], Nouri Garbi[24], Vincenzo Valenzi [23]

https://conference.cfuv.ru/conference/biospace/
https://www.vglobale.it/?s=COSMO+E+BIOSFERA

[1] **Analitical Chemistry Chair Unimol Campobasso IT**
[2] **Biomet section CIRPS** https://www.cirps.it/en/biometeo-sectio
[3] **Department of Integrative Medicine and Biophysics Federiciana Università Popolare FI/IT**
[4] **Pneumologist Paris 6 University**
[5] **Mind Matter Unified Project Cambridge**
[6] **La Sapienza University Rome IT**
[7] **Astronomic Park Lilio Savelli IT**

Abstract 5° DRAFT

The state of art of the knowledge on environment and biological system interaction is nowadays signed by a large progress in the various specialised fields (benzene, ozone, electromagnetic fields, particulates, amianto, ionised radiations, Cosmic and Local Weather and so on) . https://www.cimb.me/files/01-SPERINI-SCALIA-2013-1-.pdf
Consequently, it seams very useful to make an interdisciplinary effort to evaluate the peculiar impact of the various nattural and hantropic factors acting on real environmental conditions (rural, mountain, marine, urban and industrial ones).
The purpose of these researches should be the evaluation of the global ambient impact on the briefed air and of the radiations on the human biological functions, on the physiopathology and on the cellular development. The complexity of the topic forces us to direct ourselves towards the identification of integral markers capable of overcoming the differential approach made difficult, almost impracticable, by the aforementioned complexity.

Pollution processes have in common the character of oxidation reactions. Oxygen consumption produces the formation of radical species corresponding to the oxidation states of oxygen -1/2 and -3/2. Humans are protected from the radicalic stress by their enzymatic patrimony but in case of excess the defense from it could result not adequate. So the determination of these radical species could represent a marker capable of correlating with alarm and danger signals. Enzyme biosensors could play the role of analytical devices aimed at these determinations.
Of great interest are electromagnetic markers including air ions, that could be assimilated to the free radicals of the atmosphere, with their biological effects, including therapeutic ones, as evidenced by the climatotherapy studies of Pietracupa [1], Biançon, Davos, Carpazian, ecc that we measure with technologies for measuring skin electrical variations and body water [2-3]https://www.vglobale.it/?s=climatoterapia , as evidenced by the climatotherapy studies in Pietracupa (Molise),conducted by the teams of Scalia Sperini Avino and Valenzi [2-3-4]

as dramatically highlighted by the statistical studies by Vadym Berevzosky on the incidence of diseases in childhood in Kyiv and in a small town on the plateau of Central Asia near Samarkand see fig. 1
This would eventually help to inform and advise those responsible for pollution control and public health protection, public policies, on the relevance and importance of targeted pollution correction strategies that are the subject of ECOLOGICAL TRANSITION programs and in the short term to relaunch policies to rebalance overcrowded cities and uninhabited and abandoned mountain and marine rural areas with a high preventive and curative potential for many diseases exacerbated by pollution as studied in Briançon under direction of Hassan Razzouk with the CEMBREU and 10 clinics with hospital schools and climate high school for allergic children from France and beyond https://www.iiimb.me/files/07-cembreum.pdf
An enigmatic case is being followed by Professor Aceti in Belvedere Marittimo where a woman with multiple severe pathologies, numerous visits to the emergency room, kidney transplant, and related immunosuppressive therapies has mysteriously returned to normal life, as she recounts in her autobiographical book, and in the conference oon Climatotherapy 15 February 2025 https://www.corrierenazionale.net/2025/02/17/un-bel-vedere-scientifico-nel-futuro-dellarea-clinico-climatico-termale-dellalta-calabria/

References:
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[2]M. Scalia, P. Avino, M. Sperini, V. Viccaro, A. Pisani, V.I. Valenzi**:** "*Some Observations on the role of water states for biological and therapeutic effects*". Innovative Biosystems and Bioengineering, vol. 2, no. 3, 149–162, 2018 http://ibb.kpi.ua/article/view/140255

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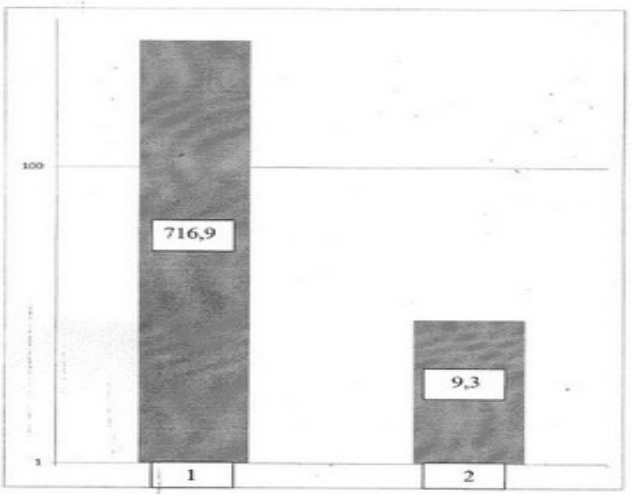
[4]V. I. Valenzi, V. Berevzosky, A. Pisani, Marashi, P. Avino, M.V. Russo, M. Sperini, M. Scalia: "Climate and Health Safety: between meteoropaties, multiple chemical sensitivity and climatotherapy"; V International Scientific Practical Conference "Technogenic and environmental safety" SAFETY-2019, April 24 2019 Saratov, Russia.
More materials on https://www.cimb.me/ricerche-idroclimatologiche.html

Fig. 1

Morbidity in Kiev and a mountain village in Central Asia near Samarkand,

by Vadym Berevzosky



Различие в заболеваемости бронхиальной астмой у жителей Киргизии, проживающих в низменных (1) или высокогорных (2) районах страны

Жители высокогорья болеют бронхиальной астмой в 77 раз реже, нежели жители низменных районов Киргизии.