

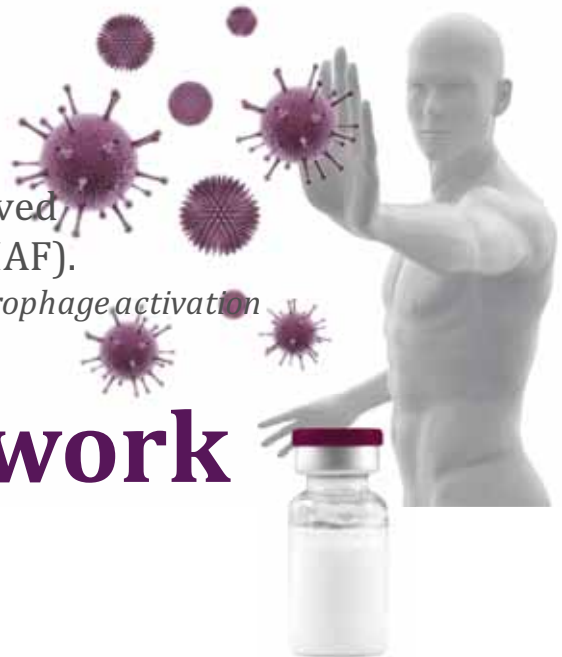


IMMUNO SHOP

# Rerum®

The non-protein, non-blood-derived  
Macrophage Activating Factor (MAF).  
*Well above and beyond GcMAF and macrophage activation*

## How does it work ?



All (*but the first*) the following biological effects of Rerum can be easily measured and verified.

- **Rerum:**
- Induces the apoptosis of human cancer cells.
- Stimulates the immune system and the release of nitric oxide from macrophages and endothelial cells.
- Reduces inflammation.
- Improves heart recovery.
- Restores the brain microbiome.
- Acts on the serotonergic pathway.

## Effects of Vitamin D-binding Protein-derived Macrophage-activating Factor on Human Breast Cancer Cells

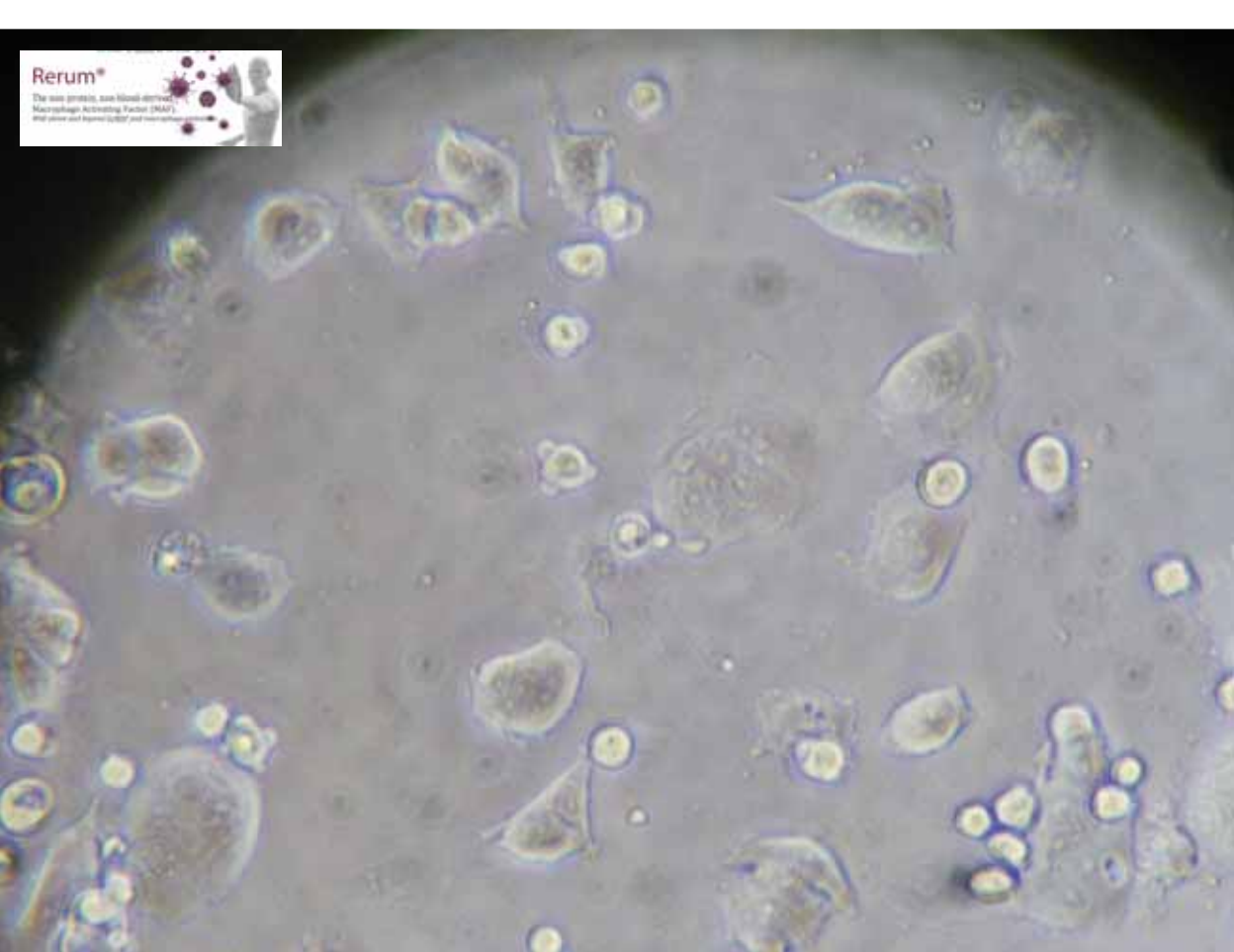
STEPHAN FRIEDL<sup>1</sup>, ANTONIO BIANCHI<sup>2</sup>, CLAUDIA E. WERNER<sup>1</sup>,  
ANDREAS G. HARTUNG<sup>1</sup> AND WOLFGANG H. BOCK<sup>1</sup>

<sup>1</sup>Department of Medicine, Oncology and Clinical Microbiology, and  
<sup>2</sup>Department of Pathology and Oncology, University of Vienna, Austria



Rerum®

The new protein, now blood-derived  
Macrophage Activating Factor (MAF)  
that allows and improves natural and immunologic



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- Restores the brain
- Acts on the serum

ANTICANCER RESEARCH 14: 3569-3578 (2014)

## **Oleic Acid, Deglycosylated Vitamin D-Binding Protein, Nitric Oxide: A Molecular Triad Made Lethal to Cancer**

MARCO RUGGIERO<sup>1,A</sup>, EMMA WARD<sup>2</sup>, RODNEY SMITH<sup>2</sup>, IACOPO J.V. BRANCA<sup>3</sup>, DAVID NOAKES<sup>4</sup>, GABRIELE MORUCCI<sup>1</sup>, MARGIT TAUBMANN<sup>5</sup>, LYNDA THYER<sup>5</sup> and STEFANIA FACINI<sup>1</sup>

<sup>1</sup>Department of Experimental and Clinical Biomedical Sciences, University of Firenze, Firenze, Italy;

<sup>2</sup>Macro Innovations Ltd, Cambridge, UK;

<sup>3</sup>Department of Experimental and Clinical Medicine, University of Firenze, Firenze, Italy;

<sup>4</sup>Immunio Biotech Ltd, Guernsey, Channel Islands, UK;

<sup>5</sup>Naturheilzentrum, Bayreuth, Germany

Increased splenic and renal blood flow following Rerum administration. Increase in blood flow is due to release of NO by activated macrophages in the spleen and to the effects on endothelial cells in the kidney.



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## ROLE OF ANGIOTENSIN-CONVERTING ENZYME AND VITAMIN D RECEPTOR GENE POLYMORPHISMS IN CANCER ANOREXIA-CACHEXIA SYNDROME

<sup>1</sup>Ariele Fabris, <sup>2</sup>Paolo Biagioni, <sup>3</sup>Tiziana Punzi, <sup>3</sup>Gabriele Morucci, <sup>3</sup>Massimo Gulisano, <sup>3</sup>Stefania Pacini and <sup>4</sup>Marco Ruggiero

<sup>1</sup>Department of Medizinische Klinik, Faculty of Medicine, Universität Köln Kreiskrankenhaus Gommersbach, Germany

<sup>2</sup>Department of Nutritional Unit, Faculty of Medicine of Misericordia e Dolce Hospital, Prato, Italy

<sup>3</sup>Department of Anatomy, Histology and Forensic Medicine,

<sup>4</sup>Department of Experimental Pathology and Oncology, Faculty of Medicine, Università degli Studi di Firenze, Firenze, Italy



Ariele Fabris et al. / American Journal of Immunology, 2012, 8 (3), 65-70

**Table 2.** Patients' data

	C1		C2		NC	
	Mean $\pm$ SD	n	Mean $\pm$ SD	n	Mean $\pm$ SD	N
Age (years)	66.9 $\pm$ 8.66	14	66.8 $\pm$ 11.6	32	59.9 $\pm$ 10.6	16
Stage	3.6 $\pm$ 0.6	14	3.6 $\pm$ 0.6	32	3.4 $\pm$ 0.9	16
Gender	43% F	14	37% F	32	50% F	16
%Weight loss in 6 months	21.0 $\pm$ 7.9	14	15.4 $\pm$ 6.7	32	5.1 $\pm$ 6.2	16
CRP (mg/dl)	6.6 $\pm$ 6.3	9	2.4 $\pm$ 2.2	29	1.0 $\pm$ 2.0	16
Albumin (mg/dl)	3.1 $\pm$ 0.6	10	3.5 $\pm$ 0.4	29	3.7 $\pm$ 0.6	15
PINI score	28	9	4	20	0.98	11
Average survival time after diagnosis of cancer (months)	6.4 $\pm$ 3.3	9	26.1 $\pm$ 27.6	12	45.3 $\pm$ 25.0	7

C1, high risk; C2, intermediate risk; C3, normal. F, female



PINI is calculated by dividing the product of serum alpha-1-glycoprotein and CRP levels by that of albumin and pre-albumin.

Prognostic Inflammatory and Nutritional Index:

$$\frac{\text{alpha - 1 acid - glycoprotein (mg / dl) x CRP (mg / dl)}}{\text{albumin (g / dl) x prealbumin (mg / dl)}}$$

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Rerum®

The anti-protein, anti-blind-drug  
Macrophage Activating Factor (MAF)

Well above and beyond (LBM) and macrophage



1.00

1.08



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Abstract - Send to

Nucleic Acids Res. 2013 Jun 7;41(12):2076-82. doi: 10.1093/nar/nkt078.

**Effects of vitamin D3 and paricalcitol on immature cardiomyocytes: a novel role for vitamin D analogs in the prevention of cardiovascular diseases.**

Pacini S<sup>1</sup>, Marzocco G, Branca JJ, Alessi S, Amato M, Guisano M, Ruggiero M.

Author information

## Dr Cheney: Still the Heart of the Matter

[www.ei-resource.org/.../dr-cheney-still-the-heart-o...](http://www.ei-resource.org/.../dr-cheney-still-the-heart-o...) ▼ Traduci questa pagina

21 mar 2013 - Cort Johnson reports on Dr. Paul Cheney's research into heart volume ...

IVRT is measured during the diastolic phase of heart cycle as it ...

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PLoS One. 2013;8(1):e54673. doi: 10.1371/journal.pone.0054673. Epub 2013 Jan 23.

## Brain microbial populations in HIV/AIDS: $\alpha$ -proteobacteria predominate independent of host immune status.

Branton WG<sup>1</sup>, Ellestad KK, Maingat F, Wheatley BM, Rud E, Warren RL, Holt RA, Surette MG, Power C.

### Author information

In an organ widely assumed to be free of infectious agents in the absence of a specific disease process, autopsied and surgically-derived human brain specimens showed a restricted but distinct bacterial population in the present studies, which was composed of bacterial classes chiefly recognized in the physical environment, i.e., soil and water. The sources of these agents might include oral consumption or inhalation with eventual transport to the brain as intracellular agents in activated leukocytes trafficking into the brain. The brain is constantly surveyed by trafficking leukocytes (activated lymphocytes and macrophages), which provide a Trojan horse mechanism for microbial entry into the nervous system across the blood brain barrier. In fact, this mechanism is well

# Restore your microbiome with Bravo Probiotic & Rerum



NaturalSolutions.nz

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# Serotonin

From Wikipedia, the free encyclopedia

*For other uses, see [Serotonin \(disambiguation\)](#).*

**Serotonin** /*sɛrəˈtoʊnɪn*/ or **5-hydroxytryptamine (5-HT)** is a **monoamine neurotransmitter**. Biochemically derived from **tryptophan**, serotonin is primarily found in the **gastrointestinal tract** (GI tract), blood **platelets**, and the **central nervous system** (CNS) of animals, including humans. It is popularly thought to be a contributor to feelings of well-being and happiness.<sup>[6]</sup>

synthesized in **serotonergic neurons** of the CNS, where it has various functions. These include the regulation of **mood**, appetite, and sleep. Serotonin also has some cognitive functions, including memory and learning. Modulation of serotonin at synapses is thought to be a major action of several classes of pharmacological antidepressants.

The image shows a screenshot of a PubMed Central (PMC) article page. At the top, there is a search bar with 'PMC' and a search icon. Below the search bar are links for 'Links', 'Advanced', and 'Journal list'. The article title is 'How to increase serotonin in the human brain without drugs' by Simon N. Young. The article is from the 'Journal of Psychiatry & Neuroscience', Volume 14, Number 5, 2007, pages 394-396. A yellow banner indicates that the article has been cited by other articles in PMC. The main text begins with a paragraph discussing the question of how to manipulate the serotonergic system with drugs and its importance in biological psychiatry.

PMC

Journal list | Links | Advanced | Journal list

Journal list | J Psychiatry Neurosci 14(5):394-396, 2007 Nov - PMC3072361

Journal of Psychiatry & Neuroscience  
Volume 14 | Manuscript | Email Alerts | About JPN

J Psychiatry Neurosci 2007 Nov; 14(5): 394-396

PMC3072361

### How to increase serotonin in the human brain without drugs

Simon N. Young

Article information | Article views | Comments and License information

This article has been cited by other articles in PMC.

For the last 4 decades, the question of how to manipulate the serotonergic system with drugs has been an important area of research in biological psychiatry, and this research has led to advances in the treatment of depression. Research on the association between various polymorphisms and depression supports the idea that serotonin plays a role, not only in the treatment of depression but also in susceptibility to depression and suicide. The research focus here has been on polymorphisms of the serotonin transporter, but other serotonin-related genes may also be involved.<sup>1,2</sup> In the future, genetic research will make it possible to predict with increasing accuracy who is susceptible to depression. Much less attention has been given to how this information will be used for the benefit of individuals with a serotonin-related susceptibility to depression, and little evidence exists concerning strategies to prevent depression in those with such a susceptibility. Various studies have looked at early intervention in those with prodromal symptoms as well as at population

Drugs that increase overall serotonin levels in general are capable of causing mydriasis in the same way as the 5-HT<sub>2A</sub>-mediated agonists.

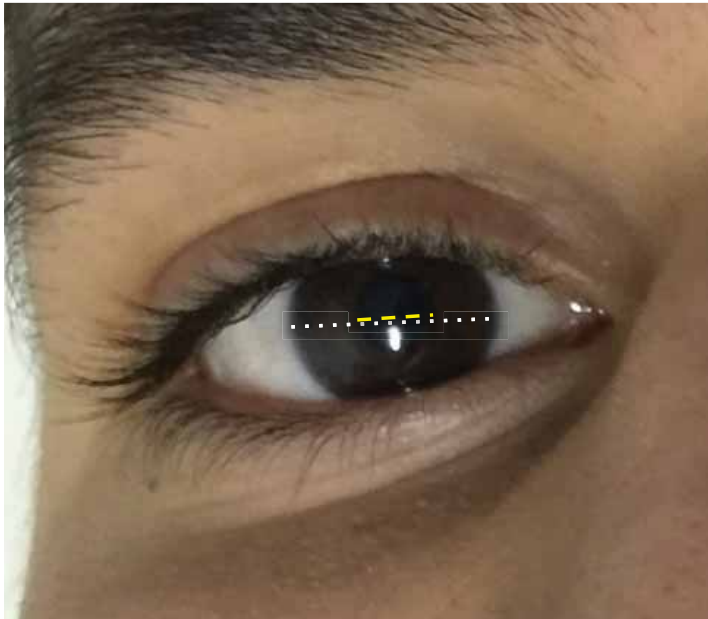
This is because serotonin itself is naturally responsible for normal 5-HT<sub>2A</sub> stimulation.

Hence, in sufficient quantities serotonin is mydriatic

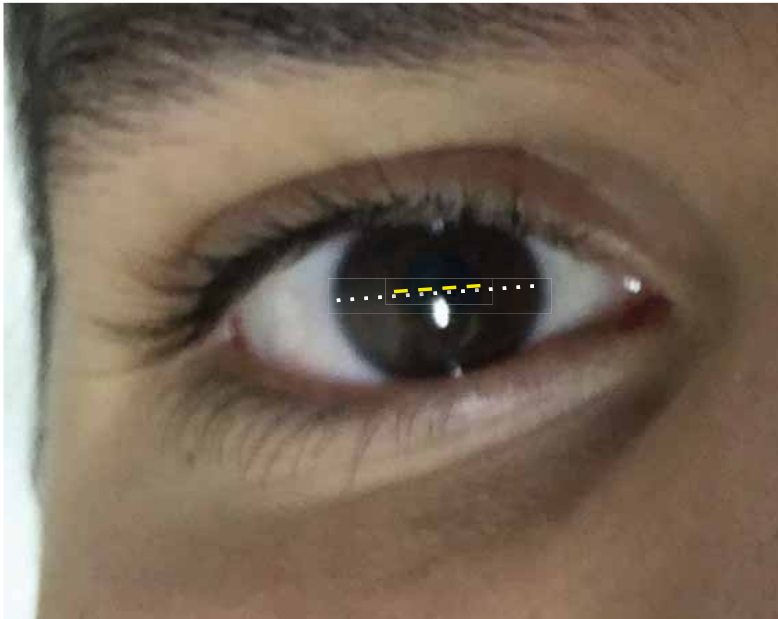




Diameter of the pupil (1.5)/diameter of the iris (4.2): 0.35



Diameter of the pupil (1.8)/diameter of the iris (4.2): 0.42.  
Per cent increase: 22%



- **Another formidable advantage (indication) of Rerum: it combines the antithrombotic properties of sulfated glycaminosglycans with the anti-aggregant properties of vitamin D3.**
- **It is the best natural molecular complex to prevent thrombosis.**

- Considering that Rerum is composed by a sulfated glycosaminoglycan backbone, a good metabolism of sulfur would further amplify the effects of Rerum.
- Compounds that can be found in nutrition stores such as methyl-sulfonyl-methane may be assumed to provide a good sulfur balance that would enable the Rerum to exert its effects with maximal efficiency.