# COHERENCE 2024 THE BENVENISTE AWARD RECENT ADVANCES IN LIFE THEORIES AND BIOTECHNOLOGY

Rome, October 3, 2004-2024 15:00-20:00 Bernard J.L. Sudan 15:20-15:40



Rome, October 3, 2024 Bernard Sudan

# Benveniste's career in immunology: from PAF to regulatory em and quantum molecular signals in diagnostics and therapy

Jacques Benveniste Association for the Research http://jacques-benveniste.org

Rome, October 3, 2024
Bernard Sudan

# Discovery of platelet-activating factor, a potent pro-inflammatory lipid-derived mediator

J. Benveniste, P. M. Henson and C. G. Cochrane *J. Exp. Med. 1972 :* 136, 1356–1377

J. Benveniste *Nature* 1974 : 249, 581–582

Rome, October 3, 2024 Bernard Sudan



> J Exp Med. 1972 Dec 1;136(6):1356-77. doi: 10.1084/jem.136.6.1356.

Leukocyte-dependent histamine release from rabbit platelets. The role of IgE, basophils, and a platelet-activating factor

#### Rome, October 3, 2024 Bernard Sudan



> C R Seances Acad Sci D. 1979 Nov 26;289(14):1037-40.

[Semi-synthesis and proposed structure of plateletactivating factor (P.A.F.): PAF-acether an alkyl ether analog of lysophosphatidylcholine]

[Article in French]

J Benveniste, M Tencé, P Varenne, J Bidault, C Boullet, J Polonsky

Rome, October 3, 2024 Bernard Sudan

PAF was discovered by French immunologist Jacques Benveniste in the early 1970s. PAF was the first phospholipid known to have messenger functions. Benveniste made significant contributions in the role and characteristics of PAF and its importance in inflammatory response and mediation. Using lab rats and mice, he found that ionophore A23187 (a mobile ion carrier that allows the passage of Mn<sup>2+</sup>, Ca<sup>2+</sup> and Mg<sup>2+</sup> and has antibiotic properties against bacteria and fungi) caused the release of PAF. (Wikipedia)

#### Rome, October 3, 2024 **Bernard Sudan**

Sudan BJL, Sterboul J: Sensibilisation tabagique, le tabac: un allergène, la nicotine: un haptène. Diagnostic par le test de dégranulation des basophiles humains. Nouv. *Presse Med.,* 1979, 8, 43, 3563.

Hôpital Necker, Paris, 1977, confirmation of Jacques Benveniste

Sensibilisation tabagique Le tabac : un allergène, la nicotine : un haptène Diagnostic par le test de dégranulation des basophiles

Tobacco sensitization : tobacco as allergen : nicotine as hapten Diagnosis by the basophil degranulation test.

We describe a case of familial atopy. The sin vitros degrandation of the basisphile (IDB), lest of Benveniste is positive by all the patients with the ellergen tobacco and the hapten reportive bound to human serum albumine (HSA). The specific hyposensitization with allergenic extracts of fobacco leaves is satisfactory.

Depuis de nombreuses années, on sait que les particules et la fumée de tabac sont susceptibles d'induire une sensibilisation [3, 4] En 1928, Karrenberg [2] cite le cas d'une femme de 48 ans, chargée du triage des feuilles de tabac. Au bout de 3 à 4 jours apparaît un érythème prurigineux des mains qui s'étend à la face et oblige la malade à suspendre son travail. Quand elle le reprend, elle a une récidive immédiate avec phénomènes beaucoup plus intenses : érythème et bouffissure de la reprise du travail. La malade réagit fortement à une macération de feuilles de tabac apliquée sur la peau. Une application de nicotine à 1/1 000 000 provoque syncope et collapsus

Nous avons observé un cas de sensibilisation à la fumée de tabac concernant une famille entière : le père, ses trois fils, dont l'un des auteurs (B.J.L.S.) et sa fille. B.J.L.S., alors âgé de 21 ans, consulta le 28 juin 1975 pour une der

mattie soudaine, localisée au visage, en alles de papillon, symétrique-ment de part et d'autre du nee, autour de la bouche, particulièrement au niveau de la lèvre supérieure, et sur le front.

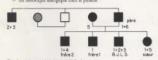
me de Quincke préputial. Son père, ses 2 frères et sa sieur développent la même dermatite au visage depuis leur adolescence. Elle évolue en

phase d'état : apparition d'un prurit intense avec ordème discre

stade terminal : desquamation, pellicules au niveau du cuir cheve

Le diagnostic clinique de dermatite atopique repose sur les critères

- un historique allergique chez le patien



- un pusé d'hyposezaibilisation spécifique très satisfaisant pour le traitement d'un astitme et d'une sinusite atopiques avec non-réappari-tion des symptômes depuis huit années. Le radio-allergo-sorbent test

(RAST) est positif (\*\*) aux poussières de maison et (\*\*\*\*) à l'acarien Dermatophagoides perconssinus pour B.J.L.S. — la réapparation régulière des crises de dermatite, avec prurit et urticaire après exposition à la fumée de tabac

une éosinophilie sanguine supérieure à 5 %, pour B.J.L.S. et son

les tests allergologiques cutanés positifs avec une dilution très fai-ble d'astigène : intra-dermo-réaction (IDIR) 1/100 000 (\*\*) avec des estraits allergéniques de tabac (institut Pasteur).

un taux élevé d'immunoglobulines E totales dans le sérum, mais uniquement pour B.J.L.S.

- la dégranulation «in vitro» des basophiles (DIR)<sup>(1)</sup> test de Benyeniste [1] positif en présence de l'allergène tabac et de l'haptène nicotine fixé sur protéine porteuse, sérum abramine humaine, pour tous les patients atteints de la même dermatite.

Enfin le test thérapeutique par l'hyposensibilisation spécifique avec des extraits allergéniques de tabac (Hollister-Stier) est satisfaisant

Les lésions de ce syndrome dermatologique correspondent exactement à la dermite séborrhéique, d'étiologie inconnue, Il par Karrenberg. L'haptène contenu dans la fumée de tabac in-duisant ce type spécifique de dermatite serait l'alcaloïde nicotine. La dégranulation des mastocytes tissulaires en présence de nicotine pourrait être à l'origine de ce syndrome dermatologi-

(1) DIB : Baso-Kit, procédé Jucques Betveniste. Laboratuire des Stuffersénes.

REMERCIEMENTS: Nous remercions les D' J. Benveniste (INSERM), Ch. Clauss (Laboratoire des Stallergènes), A. Lamensans (Institut Pasteur M. C. Barthelemy et J.L. Simon (Laboratoire Lévy) et la famille Sudan

B.P. 1951, 4001, BMe 1, Suppl

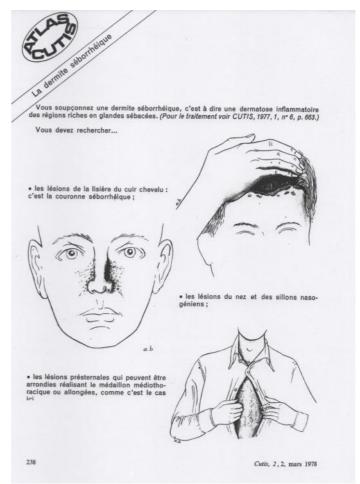
J. STERBOUL 16, rue de Pékin, F 90000 Belfor

Tivis à pare : B.I.L. Sudan, adresse es-dessas-

Bervenise 2.: Yest de déparablation en vitico des basephiles. Ann. Mod. Noisy, 1977, 16, 49-50.
 Karnesberg C.I. Zur Kassiliä der phytogenen Bertfoldernationen: Hauttechnikung direkt Fabelsbührer. Demarke Z. 1978, 12, 20-59.
 Staffan S.I.I. Contribulous à l'étable du side diseptinique de la funée de tobre La auctien: en haptien. Afreg fenousee, 1978, 10, 26-54.
 Auda Sala. Taratinique dels peoples visacles. In Mod. 1, 1978. 2, 1997.

Mots-rids / Demutite Nicotine Tabor





Rome, October 3, 2024 **Bernard Sudan Nature, June 30, 1988** 

SCIENTIFIC PAPER

NATURE VOL. 333 30 JUNE 1988

816

# Human basophil degranulation triggered by very dilute antiserum against IgE

E. Davenas, F. Beauvais, J. Amara\*, M. Oberbaum\*, B. Robinzon†, A. Miadonna‡, A. Tedeschi‡, B. Pomeranz§, P. Fortner§, P. Belon, J. Sainte-Laudy, B. Poitevin & J. Benveniste

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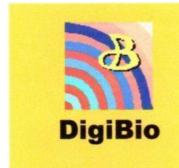
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#### Rome, October 3, 2024 Bernard Sudan



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What is so unacceptable for ultra-orthodox scientists?

The Current Theory: "structural matching"

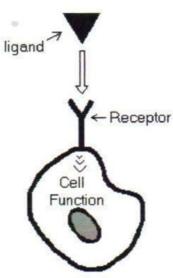


Fig A

The 3D structure of the ligand molecule, e.g. an antigen (or an agonist) matches the 3D structure of the antibody (or the receptor, respectively). This physical contact induces the cell function.

More about this ...

The Proposed Theory: "electromagnetic signals"

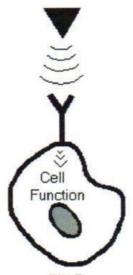


Fig B

The agonist molecule carries and emits an EM signal which coresonates with the receptor's molecules thus activating it and inducing the cell function.

More about this ...

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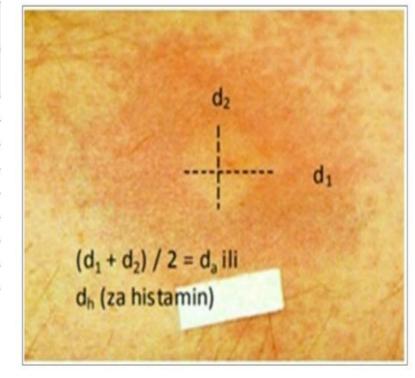
Susic Alen. Klepo L. Islamagic E. Ostogic J. Sulievic D (2018) Nicotine allergy in correlation with different sources and individual predispositions. Albanian Medical Journal 1: 13-19.

Table 2. Results of prick-test analysis for smokers and non-smokers where nicotine was used as allergen

Source of nicotine	Sample	Non-smokers (20 %) n=15				Smokers (7 %) n=15	
		Cigarettes	I	+	+	+	0.66
II	+		+	+	0.8	+	0.2
III	+		+	+	0.73	+	0.2
IV	+		+	+	0.8	+	0.2
V	+		+	+	0.73	+ <	0.2
Unprocessed tobacco	Ia	+	1	+	0.93	+	0.2
	Ib	+	+	+	1.14	+	0.26
Mean ± stdv		3.85±0.89	4.00±0.57	4.42±0.78	<b>S</b> 22	3.14±0.37	41

<sup>\*</sup>Examinees without prior allergic disease, who showed nicotine allergy after prick test;

Figure 1. Calculation of hive's diameter (Radonić, 2011)



<sup>\*</sup>Examinee with allergy to tree and grass;

Examinee with seborrheic dermatitis.

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Popular science blog

Magnesium of Dead Sea salts as a new approach for the treatment of seborrheic dermatitis

Rome, October 3, 2024 Bernard Sudan

# Dead sea salts 5% ointment with Magnesium Chloride Inhibition of Mast cells degranulation

Sudan, B. J. (2024). Magnesium of Dead Sea Salts as a Key Factor for the Treatment of Seborrheic and Atopic Dermatitis: A Case Report.

Bioscientia Medicina: Journal of Biomedicine and Translational Research, 8(4), 4314-4318.





# Rome, October 3, 2024 Bernard Sudan

Sudan, B.J. 2024. Magnesium of Dead Sea Salts as a Kev Factor for the Treatment of Seborrheic and Atopic Dermatitis: A Case Report. *Bioscientia Medicina : Journal of Biomedicine and Translational Research*., 2024, 8, 4, 4314-4318



Bioscientia Medicina: Journal of Biomedicine & Translational Research

Journal Homepage: www.bioscmed.com

Magnesium of Dead Sea Salts as a Key Factor for the Treatment of Seborrheic and Atopic Dermatitis: A Case Report

Bernard J.L. Sudan<sup>1\*</sup>

<sup>1</sup>Ex-Laboratory Head in Pharmacology and Toxicology (Retired), Basel, Switzerland

#### Rome, October 3, 2024 Bernard Sudan

Sudan BJL Letter to the editor regarding "Analysis of the epidemiology, coexisting skin diseases, and variables affecting seborrheic dermatitis severity". Med. Science 2024, 13 (2): 510-511.



Available online at www.medicinescience.org

#### LETTER TO THE EDITOR



Medicine Science 2024;13(2):510-1

Letter to the editor regarding "Analysis of the epidemiology, coexisting skin diseases, and variables affecting seborrheic dermatitis severity"

**©Bernard Jean Louis Sudan** 

Ex-Laboratory Head in Pharmacology and Toxicology (Retired), Basel, Switzerland

Received 29 February 2024; Accepted 22 April 2024 Available online 01 June 2024 with doi: 10.5455/medscience.2024.02.022



# Rome, October 3, 2024 Bernard Sudan

Sudan BJL The power of observational medicine over the epidemiology of seborrheic dermatitis.

RAS Medical Science, 2024, 4 (1): 1-3

#### RAS MEDICAL SCIENCE

Short Communication: The power of observational medicine over the epidemiology of seborrheic dermatitis



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Citation: Bernard J.L. Sudan

The power of observational medicine over the epidemiology of seborrheic dermatitis

Received Date: 21 Mar 2024

Published Date: 7 April 2024

#### ABSTRACT

Observational medicine has solved the etiology of a familial seborrheic dermatitis, an allergy to hapten nicotine and allergen tobacco. Also a targeted treatment with sodium cromoglycate and then with Dead Sea salts shows well the involvement of tissue mast cells at the base of the sebaceous glands. Recently, epidemiological studies show a link of severity of seborrheic dermatitis in tobacco smokers. Also, it can be concluded that observational medicine is much faster to solve a skin disease in comparison with epidemiology.

**Keywords:** Seborrheic dermatitis, allergy, epidemiology, mast cells, dermatology, nicotine, hapten, tobacco, allergen, observational medicine, histamine

#### Rome, October 3, 2024 **Bernard Sudan**

Bernard JL Sudan, Towards an Allergic Solution for Seborrheic Dermatitis. Biomed. J. Sci. & Tech. Res., 2024, 57(3), 49257-49260.



NLM ID: 101723284 OCoLC: 999826537 LCCN: 2017202541



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Articles \

#### Perspective

Towards an Allergic Solution for Seborrheic Dermatitis

» Volume 57- Issue 3

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Received: July 01, 2024; Published: July 08, 2024



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DOI: 10.26717/BJSTR.2024.57.009001

#### Rome, October 3, 2024 Bernard Sudan

Sudan, B. J. L. (2024). Mast Cells, Magnesium Chloride and Seborrheic Dermatitis as an Allergic Skin Disease. *International Journal of Innovative Research in Medical Science*, 9 (09), 511–516. https://doi.org/10.23958/ijirms/vol09-i09/1960

International Journal of Innovative Research in Medical Science (IJIRMS) Volume 09, Issue 09, September 2024, https://doi.org/10.23958/ijirms/vol09-i09/1960

Original Article



# Mast Cells, Magnesium Chloride and Seborrheic Dermatitis as an Allergic Skin Disease

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Received 19 August 2024;

Accepted 08 September 2024;

Published 12 September 2024

Rome, October 3, 2024 Bernard Sudan

#### **Mast Cells, Vibration and Magnesium Chloride**



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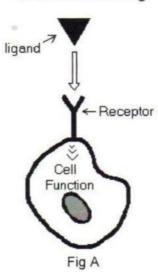
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### MOLECULAR SIGNALING What is so unacceptable for ultra-orthodox scientists?

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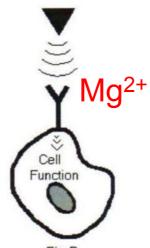


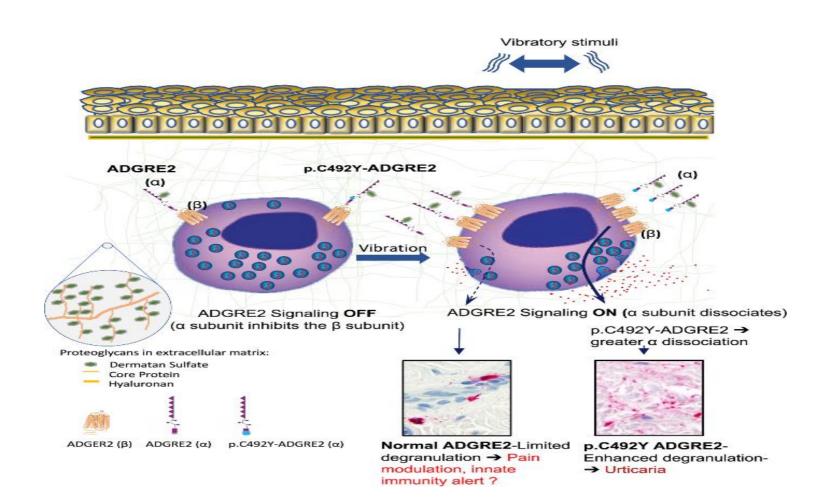
Fig B

The agonist molecule carries and emits an EM signal which coresonates with the receptor's molecules thus activating it and inducing the cell function.

More about this ...

Rome, October 3, 2024
Bernard Sudan
Mast Cells and Vibration

Mast cells signal: their importance in health and disease Ana Olivera, Michael A. Beaven and Dean D. Metcalfe J. Allergy Clin. Immunol., 2018, 142, 381-393.



Rome, October 3, 2024 Bernard Sudan

#### **Vibratory Urticaria and Mast Cells (Orpha.net)**

# Vibratory urticaria



#### Disease definition

Vibratory urticaria is a rare, genetic urticaria characterized by the development of localized, short-lasting (resolving within 1 hour), pruritic, erythematous, edematous hives in response to repetitive frictional or vibratory stimulation of the skin, which in some cases is accompanied by facial flushing, headache or the sensation of a metallic taste. Concomitant local mast cell degranulation and increased histamine serum levels are additional typical findings.

# Rome, October 3, 2024 Bernard Sudan

Shevchenko, I.V. (2023). Influence of the Sun on "water memory". J Water Res, 1(1), 61-64

**Review Article** 

Journal of Water Research

Influence of the Sun on "water memory"

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Submitted: 2023, Aug 07; Accepted: 2023, Aug 28; Published: 2023, Sep 23

Citation: Shevchenko, I.V. (2023). Influence of the Sun on "water memory". J Water Res, 1(1), 61-64.

Rome, October 3, 2024
Bernard Sudan

Shevchenko, I.V. (2023). Influence of the Sun on "water memory".

J Water Res, 1(1), 61-64

#### Abstract

In June 1988 an interesting report by Dr. Jacques Benveniste and his associates was published stating that water is capable of memorizing the structure of dissolved anti-LgE antibody and retaining its biological effectiveness after strong dilution (by factor as great as  $10^{120}$ ). However, this phenomenon still cannot be reliably confirmed because it is not always reproducible. This instability is accounted for by another fundamental phenomenon recently discovered. Due to an extremely high sensitivity to changes in solar activity and distribution of solar energy around the Earth as it rotates around the Sun and its own axis, the ability of water molecules to self-organize is highly dynamic and can vary within a very wide range within a year, month, day, hour and even several minutes. An increase in solar influence causes splitting of large clusters with the formation of small clusters, the chemical activity of which is much higher than that of large ones. After the solar influence decreases, small clusters reunite again. For this reason, the rate of hydrolytic processes involving water clusters is very unstable and can vary by up to 200 times during the year and the 11-year solar cycle.

#### JOHENLINGE ZUZT

# Rome, October 3, 2024 Bernard Sudan

Petrova, A.; Tarasov, S.; Gorbunov, E.; Stepanov, G.; Fartushnaya, O.; Zubkov, E.; Molodtsova, I.; Boriskin, V.; Zatykina, A.; Smirnov, A.; et al. Phenomenon of Post-Vibration Interactions. *Symmetry* 2024, *16*, 958.



#### Phenomenon of Post-Vibration Interactions

by Anastasia Petrova ☑, Sergey Tarasov, Evgeniy Gorbunov \* ☑, German Stepanov,
Olga Fartushnaya, Evgenii Zubkov ⑩, Irina Molodtsova ⑩, Vladimir Boriskin,
Anastasia Zatykina, Alexey Smirnov, Svetlana Zakharova, Sabina Yaroshenko,
Anna Ponomareva, Nataliya Petrova, Elena Kardash, Ksenia Ganina ⑩, Natalia Rodionova ⑩,
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Symmetry 2024, 16(8), 958; https://doi.org/10.3390/sym16080958

Submission received: 25 June 2024 / Revised: 16 July 2024 / Accepted: 18 July 2024 /

Published: 27 July 2024

(This article belongs to the Special Issue Symmetry/Asymmetry: Feature Review Papers 2024)

#### Rome, October 3, 2024 Bernard Sudan

Petrova, A.; Tarasov, S.; Gorbunov, E.; Stepanov, G.; Fartushnaya, O.; Zubkov, E.; Molodtsova, I.; Boriskin, V.; Zatykina, A.; Smirnov, A.; et al. Phenomenon of Post-Vibration Interactions. *Symmetry* 2024, *16*, 958.

During the preparation of high dilutions, repeated external vibration (shaking) is used. We hypothesized that it was the vibration treatment, and not the negligible content of the initial substance, that underlies the activity of highly diluted preparations. In order to test this, the vibration was separated from the dilution process. After vibrating two tubes together on a vortex mixer (one containing water and the other the initial substance) the electrical conductivity and radio frequency radiation intensity of water differed from the unvibrated control, and the ability to exert a modifying effect on the target solution appeared, as assessed using ELISA and terahertz spectroscopy, appeared. Thus, the properties of the neutral carrier (water) changed after non-contact exposure to the initial substance. We have named this process 'crossing' and its products 'aqueous iterations of the initial substance'. Several aqueous iterations with different physical properties were obtained, some of which have a modifying effect and others cause various chemical (catalytic) and biological (antiviral) effects similar to those of the initial substance. This indicates that during crossing, substances enter into post-vibration supramolecular interactions. At the nanoscale level, aqueous iterations and the initial substance are structurally symmetrical, which allows us to assume that the preservation of the symmetry of substances subjected to vibration treatment is the basis of the post-vibration interaction phenomenon.

#### Rome, October 3, 2024 Bernard Sudan

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