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BEAUTY IS AN ART, WE MADE IT A SCIENCE

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NCTF® SCIENTIFIC DATA





IN-VITRO STUDY NCTF®

NCTF® - UNIQUE & EXCLUSIVE FORMULA

Clinical, Cosmetic and Investigational Dermatology

Dovepress en to scientific and medical research EXPERT OPINION

Copen Access Full Tant Article

Polycomponent mesotherapy formulations for the treatment of skin aging and improvement of skin quality

> This article was published in the following Dove Press journal: Chicks Connect: and Investigational Dermatology 7 April 2015 Namber of Stress Ob. article has Leen stevend

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Abstract: Skin asing can largely be altributed to dermal fibroblast dysfunction and a decrease in their biosynthetic activity. Regardless of the underlying causes, aging fibroblasis begin to produce elements of the extracellular matrix in amounts that are insufficient to maintain the youthful appearance of skin. The goal of mesopreparations is primarily to slow down and correct changes in skin due to aging. The rationale for developing complex polycomponent mesopreparations is based on the principle that aging skin needs to be supplied with the various substrates that are key to the adequate functioning of the fibroblast. The outniessential example of a polycomponent formulation - NCTF* (New Cellular Treatment Factor) - includes vitamins, minerals, amino acids, nucleotides, coenzymes and antioxidanis, as well as hyaluronic acid, designed to help fibroblasis function more efficiently by providing a more optimal environment for biochemical processes and energy generation, as well as resisting the effects of oxidative stress. In vitro experiments suggest that there is a significant increase in the synthetic and prophylactic activity of fibroblasts with treated NCTF, and a significant increase in the ability of cells to resist oxidative stress. The current article looks at the rationale behind the development of polycomponent mesopreparations, using NCTF as an example. Keywords: mesotherapy, skin aging, skin quality

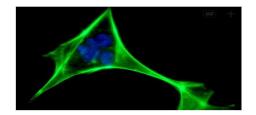
Introduction

Our knowledge of skin sa complex, immune, mukifustcinaal organ is constatuly evolving, including our insights into the skin aging process.¹¹ Recert histological, biochemical and biomolecular evidence has broadened our understanding of skin cell function and aging and provided new information on cell-to-cell interactions and particular features of intermolecular transport and communication.¹¹ This has provided an important simulas to the development of new moschaper yobitons as main-aging transmet. Mesotherapy is a technique that inno/wes micro-nigoticins of therapeutic substances, such as hyalaronic acid, vitamine, minerale, and amino acids into the superficial papilitary demain of the skins.¹ This allows acite and assume and ingredients to conderday into contact with the demain lifetohast cells that are key to the more favorable appearance of younger skin, and (in theory) have a beneficial effect on metabolic processes.

Correspondence: Serger Frikhnenko 26/1 Sovetskara Street, Novocibirsk 620091, Russia Tel +7 262 (217 1519 Pax +7 262 (21 2669 Email orthnenko.s@randes.ru The range of available mesotherapy solutions widens choice for the practitioner, but also presents them with a challenge. In addition to having a good fundamental knowledge of dematology and coametology, the practitioner may also benefit from an understanding of the physiological effects of the individual components of a paricular formulation. Such knowledges should help to demutrity the rationale behind the

[THE MOST COMPLETE BIOREVITALISING FORMULA]

REBOOSTS AGEING FIBROBLAST ACTIVITY FOR A REVERSE AGEING EFFECT



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NCTF* 135 HA Acide hyaluronique Solution polyrevitalisate

ANTIOXIDANT EFFECTS: human lymphoid cells (Jurkat)

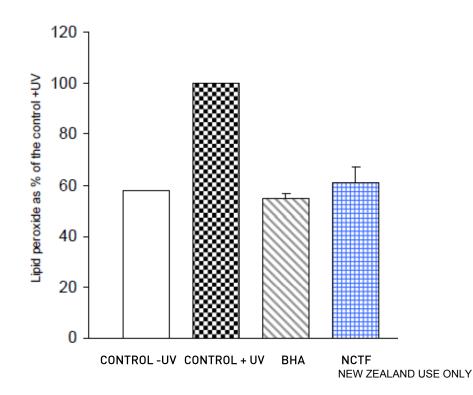


ANTIOXIDANT EFFECTS OF NCTF POWDER:

Effect on the production of H₂O₂ and LIPID PEROXIDES (LP) in human lymphoid cell culture exposed or not to UV (Fluorescence Cytometry Analysis)

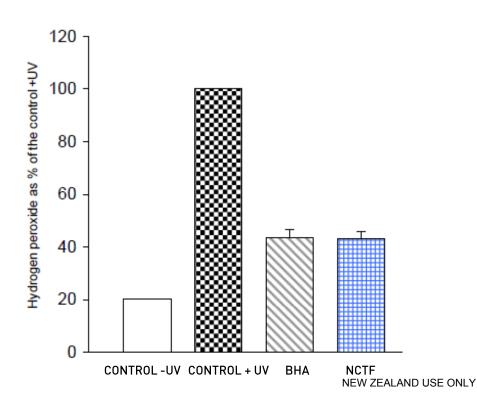
- Evaluate the antioxidant efficacy of NCTF
- Quantification of H₂O₂ and Lipid Peroxides (LP) in human lymphoid cells (Jurkat) exposed or not to UVA + UVB irradiation
- Using specific fluorescent probe
- NEW ARTIGREGERSTERE

RESULTS: CELLULAR PROTECTION AGAINST LP



RESULTS: REDUCTION OF INTRACELLULAR QUANTITY OF LIPID PEROXYDES (LP) OF IRRADIATED CELLS TREATED WITH NCTF® AND BHA

RESULTS: CELLULAR PROTECTION AGAINST H202



RESULTS: REDUCTION OF INTRACELLULAR QUANTITY OF H2O2 OF IRRADIATED CELLS TREATED WITH NCTF® AND BHA

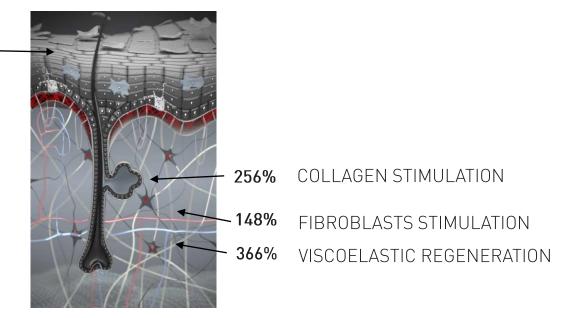
CONCLUSION



- NCTF has a strong antioxidant activity compared to the anti-oxidant reference BHA
- Contributes to cellular protection against oxidative stress (LP and H2O2)
- Double effect: correction (clinical instrumental study) and prevention (in vitro study)

PROVEN MODE OF ACTION: SKIN LAYERS STIMULATION

ANTI-FREE RADICAL ACTION 90%



CREATES AN OPTIMAL ENVIRONMENT FOR FIBROBLASTS NEW ZEALAND USE ONLY

Sergey Prikhnenko, MD - Polycomponent mesotherapy formulations for the treatment of skin aging and improvement of skin quality - Clinical, Cosmetic and Investigational Dermatology 2015

NCTF® - STRONG CLINICAL DEVELOPMENT



2014



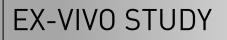
CLINICAL	STUDIES 8	EVIDENCE

MULTICENTER CLINICAL STUDY 2008	BIONUTRIGLOW CLINICAL STUDY 2018	OBSERVATIONAL STUDY 2014	EX-VIVO STUDY 2006	CLINICAL STUDY 2019
INSTRUMENTAL CLINICAL STUDY				





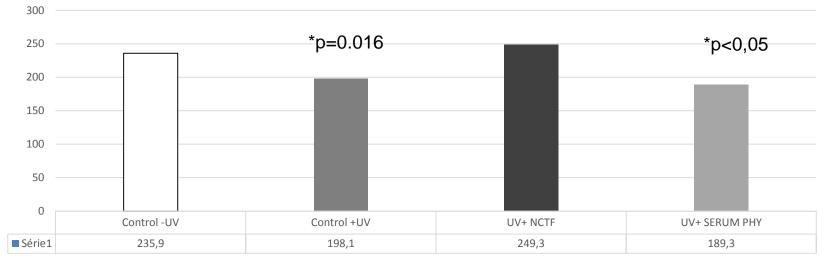
EX-VIVO STUDY EVALUATE THE PHOTOAGEING EFFECT OF NCTF®

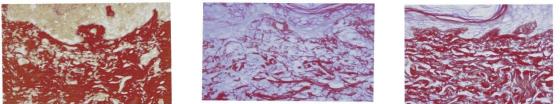


- Ex-vivo study on human tissue, during 15 days (equal to 2 months in vivo)
- Human skin exposed to UVA- UVB
- Multi-injection technique (point per point, nappage)
- NCTF® vs SERUM PHY
- Evaluation: Biopsy and collagen/ elastin marking



RESULTS: Histological analysis of collagen





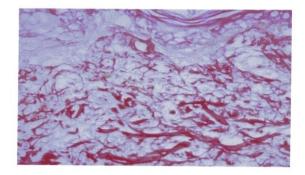
CONCLUSION: HISTOLOGICAL ANALYSIS

 After 1 session of treatment with NCTF®, the UV- exposed tissue is completely restored (collagen)

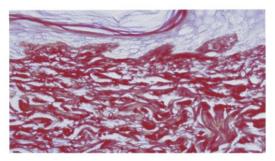
⇒NCTF® has a proven effect against photoageing

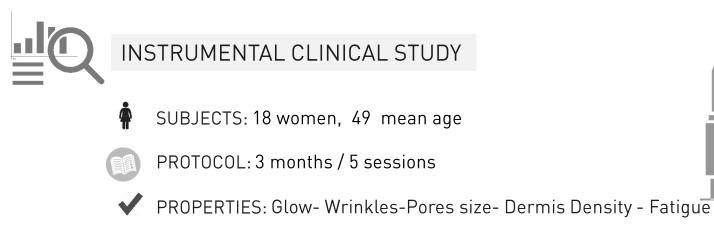
NEW ZEALAND USE ONLY

AFTER IRRADIATION



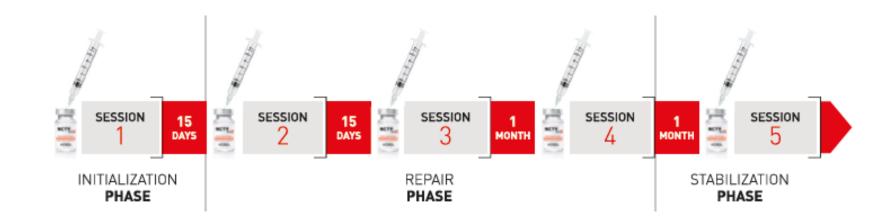
AFTER TREATMENT WITH NCTF







PROTOCOL



GLOW EVENESS +49%

Dermatologist Scoring





Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects.

Scoring / Chromatic analysis

NEW ZEALAND USE ONLY

HOMOGENEITY +52%

Chromameter Konica Minolta (CR/DP-400®)



Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects.

NEW ZEALAND USE ONLY CONFIDENTIAL INTERNAL DATA- DO NOT DIFFUSE

WRINKLES VOLUME -33%

Profilometric analysis - Skin Station®, unit:(Volume/mm2)





Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects. NEW ZEALAND USE ONLY CONFIDENTIAL INTERNAL DATA- DO NOT DIFFUSE Scoring / Profilometric measure

PORE SIZE -59%

Macrophotography Proscope x30

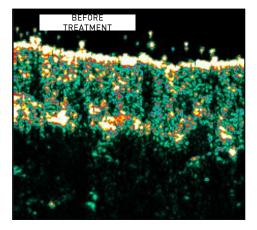




Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects. NEW ZEALAND USE ONLY CONFIDENTIAL INTERNAL DATA- DO NOT DIFFUSE

TONICITY, FIRMNESS

HIGH FREQUENCY ECHOGRAPHY monaderm ® 20mhz



GREEN: COLLAGEN YELLOW: NEW COLLAGEN AFTER TREATMENT

+ 24 %

DERMIS DENSITY (Increase of collagen fibers)

+ 20 %

DERMIS THICKNESS

Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects.

NEW ZEALAND USE ONLY

PATIENT SELF ASSESSMENT AFTER 5 SESSIONS



8/10 WOMEN WILL CHOOSE NCTF IN CASE THEY HAVE TO REPEAT A BIO REVITALISATION TREATMENT

Instrumental Study realized by an independant Clinical Research Center in Dermatology - (GREDECO, Paris, France) on 18 subjects.

NEW ZEALAND USE ONLY

OBSERVATIONAL PROSPECTIVE STUDY

OBSERVATIONAL PROSPECTIVE STUDY

SUBJECTS: 77 subjects, aged from 34 to 68 years



PROTOCOL: 3 sessions, 15 days to 1 month apart



PROPERTIES: Wrinkles-Homogeneity







BEFORE

NEW ZEALAND USE ONLY





BEFORE

NEW ZEALAND USE ONLY





BEFORE

NEW ZEALAND USE ONLY





AFTER PHOTOS

BEFORE

NEW ZEALAND USE ONLY



NANOSOFT & NCTF 135HA (CE) CASE STUDIES

NANOSOFT™ by FILLMED INTRADERMAL INJECTION OF NCTF®

After 4 sessions





VISIBLE RESULT EVENT AFTER 1 SESSION INTRADERMAL INJECTION OF NCTF®



1 month after only 1 session

VISIBLE RESULT EVENT AFTER 1 SESSION INTRADERMAL INJECTION OF NCTF®



1 month after only 1 session

NANOSOFT™ by FILLMED INTRADERMAL INJECTION OF NCTF®



6 weeks after 2 sessions

SIDE EFFECTS?

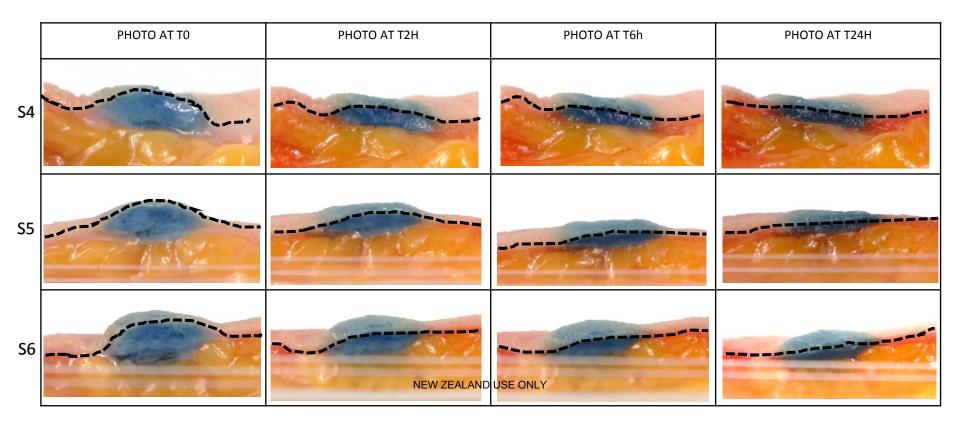
PAPULES

Disappear within 1 – 24 hours



EX VIVO STUDY- Injection at T0, Cut at T5 min, SERIAL PHOTOGRAPHY TILL 24H

NANOSOFT & NCTF





NCTF®

CYTOTOXICITY STUDY

CYTOTOXICITY STUDY

• Objective :

The composition of NCTF 135 is similar to the cell culture medium. It means that the cells are in their physiologic envireonment.

The objective of the study is to evaluate the cytotoxicity of NCTF and the one of its main competitors on human primary fibroblasts and keratinocytes.

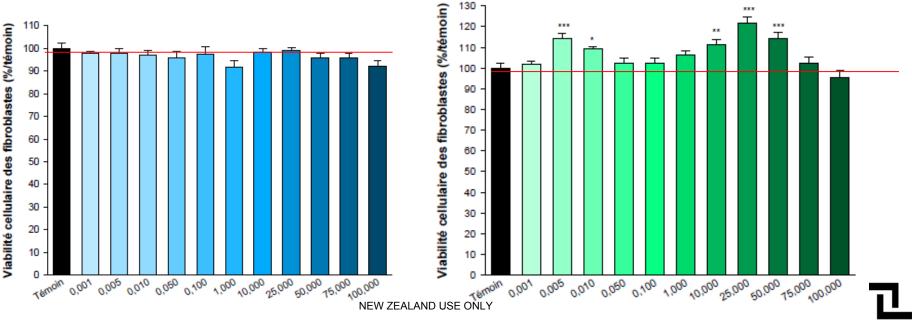
STUDY NCTF® 135- FIBROBLASTS

RESULTS ON FIBROBLASTS VIABILITY AND PROLIFERATION

COMPETITOR 1

No stimulation of the fibroblasts

NCTF® 135 Stimulates the fibroblasts in almost all concentrations

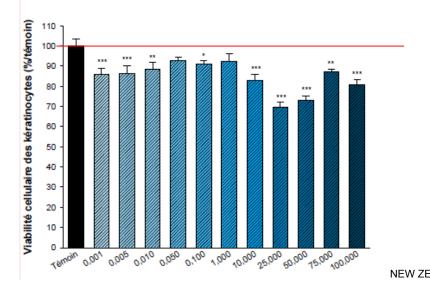


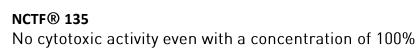
STUDY NCTF® 135- KERATINOCYTES

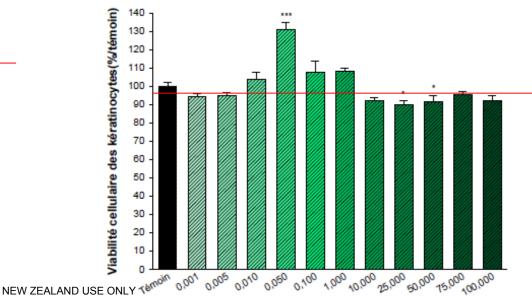
RESULTS ON KERATINOCYTES VIABILITY AND PROLIFERATION

COMPETITOR 1

Cytotoxic activity for almost all concentrations







RESULTS : NCTF® SAFE AND EFFICIENT

Conclusion:

NCTF®

- 1) No cytotoxicity observed with NCTF®, in human fibroblasts and keratinocytes.
- 2) NCTF® has a positive stimulating effect on both fibroblasts and keratinocytes.

COMPETITOR

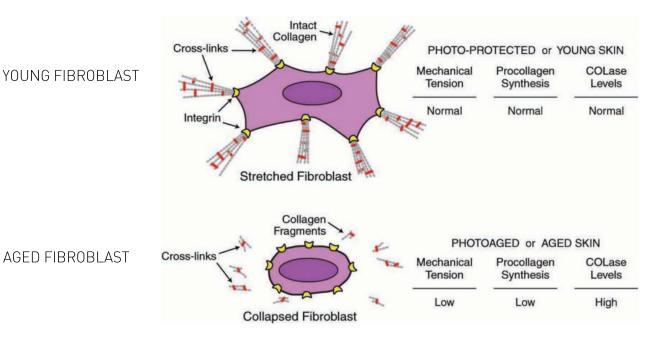
- 1) Cytotoxicity observed in human keratinocytes (high concentrations) but not in fibroblasts.
- 2) No effect on human fibroblasts or keratinocytes.





NCTF® Contractile forces

AGED FIBROBLAST



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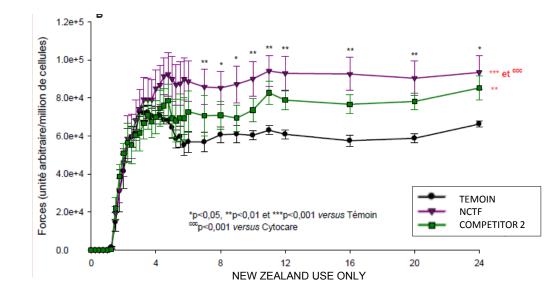
Arch Dermatol. 2008 May ; 144(5): 666-672

COMPARATIVE STUDY NCTF vs COMPETITOR 2 RESTORATION OF CONTRACTILE PROPERTIES OF WRINKLES FIBROBLASTS

COMPARED TO NORMAL AGED FIBROBLASTS WRINKLE FIBROBLASTS SHOWED A SIGNIFICANT DECREASE IN CONTRACTILE FORCES

RESULTS

- NCTF significantly increased the contractile forces of aged wrinkle fibroblasts
- NCTF has a better effect on contractile properties of wrinkle fibroblasts than COMPETITOR 2





BEAUTY IS AN ART, WE MADE IT A SCIENCE

THANK YOU