

INSTITUTIONAL COLLABORATIONS















INDUSTRIAL AND INTELLECTUAL PROTECTION OF BIOGRAPH® AND APPLICATIONS

PATENTS



WO 2020/016319 A1. detallar el objeto de la patente

WO 2020/016324 A1 detallar el objeto de la patente

EP21382355 - Graphene nanomaterial for use as fat adsorbent

SCIENTIFIC ARTICLES



Rivera-Briso AL, Int J Biol Macromol. 2019; 8130(19)

Elias L, Int J Mol Sci. 2019;20(14).

Llorens-Gámez M, Polymers (Basel). 2018;10(4).

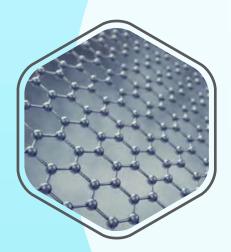
Salesa B, Polymers (Basel). 2019; 11(3).



Griera M, Mater Sci Eng C Mater Biol Appl, 2021 (EN PREPARACIÓN)



PATENTED PROCESS













BIOGRAPHs:

(medical grade graphene derivates, free of impurities, depirogenated and with limited particle size)













BIOGRAPHs:

(formulated as per specific biomedical use)



BIOGRAPH® SAFETY

SAFETY TESTED BY GRAPHENANO MEDICAL CARE

SAFETY TESTED BY CERTIFIED COMPANY



CULTURED CELL
LINES AND PRIMARY
CULTURE

Viability

(by trypan blue cellular exclusion)

Toxicity

(cellular metabolism by MTT)

Immunological reactivity (of human PBMCs)





Mutagenicity

Genotoxicity

Ocular irritation

Dermal irritation



GRAPHENANO MEDICAL CARE RESEARCH & BUSINESS INTERESTS













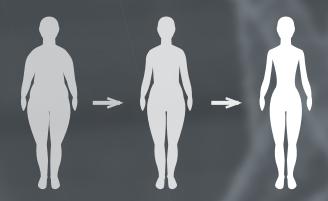


Descubre la mejor versión de tu piel.

Graphene & Microalgae Natural Science



BIOGRAPH SLIM AS SKIN CONDITIONER



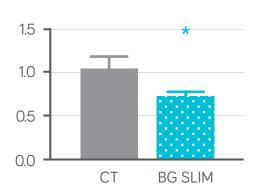
Related patents: WO 2020/016319 A1 and WO 2020/016324 A1



BIOGRAPH SLIM MODIFIES THE DIFFERENTIATION CAPACITY OF CULTURED ADIPOBLASTS

ADIPOGENESIS AND TRANS-DIFFERENTIATION MARKERS

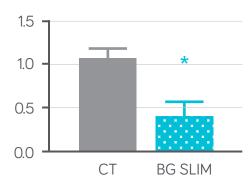
PPARγ mRNA EXPRESSION FOLD CHANGE (VS CONTROL)



UCP-1 mRNA EXPRESSION FOLD CHANGE(VS CONTROL)

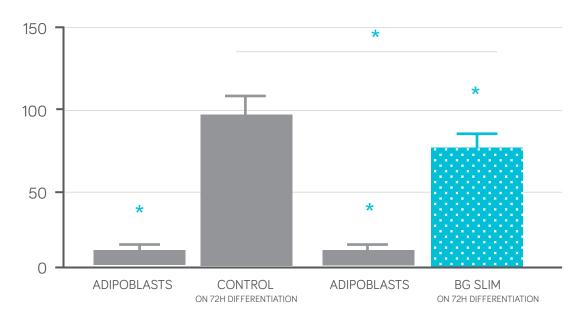


LEPTIN mRNA EXPRESSION FOLD CHANGE (VS CONTROL)



BIOGRAPH SLIM REDUCES FAT STORAGE IN CULTURED ADIPOBLASTS DURING DIFFERENTIATION

ADIPOBLASTS TO ADIPOCYTES **DIFFERENTIATION (%** vs control)



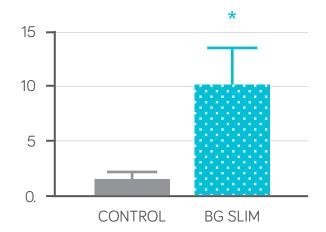
CELLULAR TRIGLYCERIDE STORAGE



BIOGRAPH SLIM LIPOLYSIS CAPACITY IN CULTURED ADIPOCYTES

LIPOLYSIS MARKER

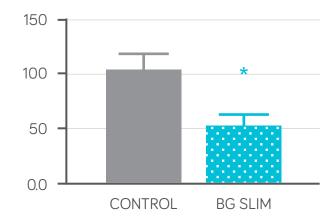
HSL MRNA EXPRESSION FOLD CHANGE (VS CONTROL)



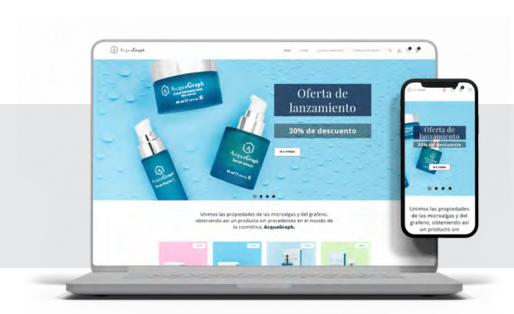
BIOGRAPH SLIM REDUCES FAT STORAGE IN FULL DIFFERENTIATED ADIPOCYTES

CELLULAR TRIGLYCERIDE STORAGE

ADIPOCYTES DE-DIFFERENTIATION % VS CONTROL



ACQUAGRAPH MARKETING AND SELLING CHANNELS



CURRENTLY ONLY ON-LINE SALES

www.acquagraph.com

NEXT STEPS

TO ENTER NEW SELLING CHANNELS:

- Pharmacies
- Perfumeries
- Para-pharmacies
- Retailers

DEFINITION ON:

- Merchandising materials
- Marketing & communication









LIPSTICK-LIP GLOSS

- Looking for Ultra-moisturising comfortable lipstick formula
- Looking for softly circulation stimulators (menthol) to create the appearance of plumped, fuller lips.
- Softer, healthier and plumper lips

TIPS FOR THE BES LIP-CONTOURING

- Exfoliated and hydrated lips.
- Make sure you take care of your lips, that they're not dry or rough.
- Otherwise, when you profile them, you will only visually enhance their bad state.

BIOGRAPH® & ACQUASEA

The perfect ingredients to be added in any lip care cosmetic product

Moisturizing effect 26.9 % **Immediately** after product application on

volunteers

Microcirculation improvement 16.7 %

> After 4 weeks, once/day

Tewl reduction 35.8 %

Immediately after product application on volunteers

Firming effect 18.3 %

After 4 weeks, once/day







LONG-LASTING NAIL POLISHES TO STAY CHIP-FREE FOR DAYS

SALLY HANSEN SALON MANICURE

A trusted drugstore beauty brand for years, Sally Hansen delivers on quality without sacrificing its low price point — and this long-lasting polish lives up to the legacy. The smooth and lustrous formula is enriched with keratin to help your nails get stronger, and the fast-drying polish can last up to 10 days even without a separate top coat.







HAIR CARE ANTI-FRIZZ HAIR PRODUCTS

ANTISTATIC PROPERTY OF GRAPHENE-COATED HAIR









PRIVATE LABEL FOR RECOGNISED **PROFESSIONALS**

DERMATOLOGISTS MEDICAL AESTHETICIANS PLASTIC SURGEONS

THE USE OF GRAPHENE BY PROFESSIONALS **WILL HELP US TO:**

- Publicize the new active ingredient unknown to the end consumer, through professionals
- Professional = safe
- Start business in pharmacie.

Currently already in contact with:

- Dr. Ivan Mañero plastic surgeon
- Dra. M.J. Rubira- Medical aesthetician
- Dermatologists: Dra. Montse Saban





PARTNERSHIPS

To consider the possibility of partnerships with well-known international big companies in order to enjoy their commercial networks, selling channels, logistics and structures and speed up our international growth.

BLOCKBUSTER PRODUCT: licensing of AcquaGraph lipolytic anti-cellulite product

Global Cellulite Treatment Market Will Reach USD 4,015 Million By 2025: Zion Market Research

According to the report, the global cellulite treatment market was valued at USD 2,415 million in 2018 and is expected to generate around USD 4,015 million by 2025, growing at a CAGR of 7.5% between 2019 and 2025.

August 22, 2019 01:31 ET | Source: Zion Market Research

The cellulite treatment market is sectored into non-energy-based (soft cellulite treatment, topical creams, and others) and energy-based (mechanical suction, cryolipolysis, mechanical suction and thermal, ultrasound, radiofrequency, and others).

By technique, the global cellulite treatment market includes non-invasive, minimally invasive, and others. Non-invasive technique accounted for the largest share globally in 2018, due to the high demand for non-invasive techniques in hospitals and specialized clinics.



METABOLIC HIGH PREVALENCE DISEASES

PATENT

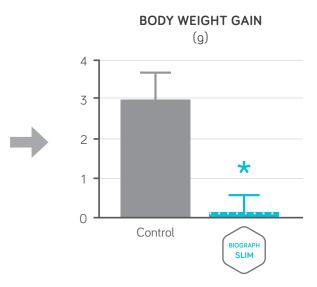
EP21382355 - Graphene nanomaterial for use as fat adsorbent

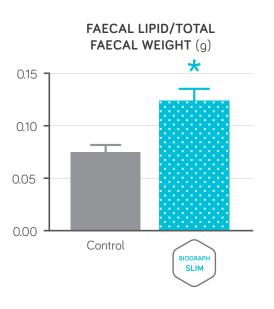
METABOLIC HIGH PREVALENCE DISEASES

ORAL APPLICATION



Obesity mice model (based in High-Fat Diet during six weeks)





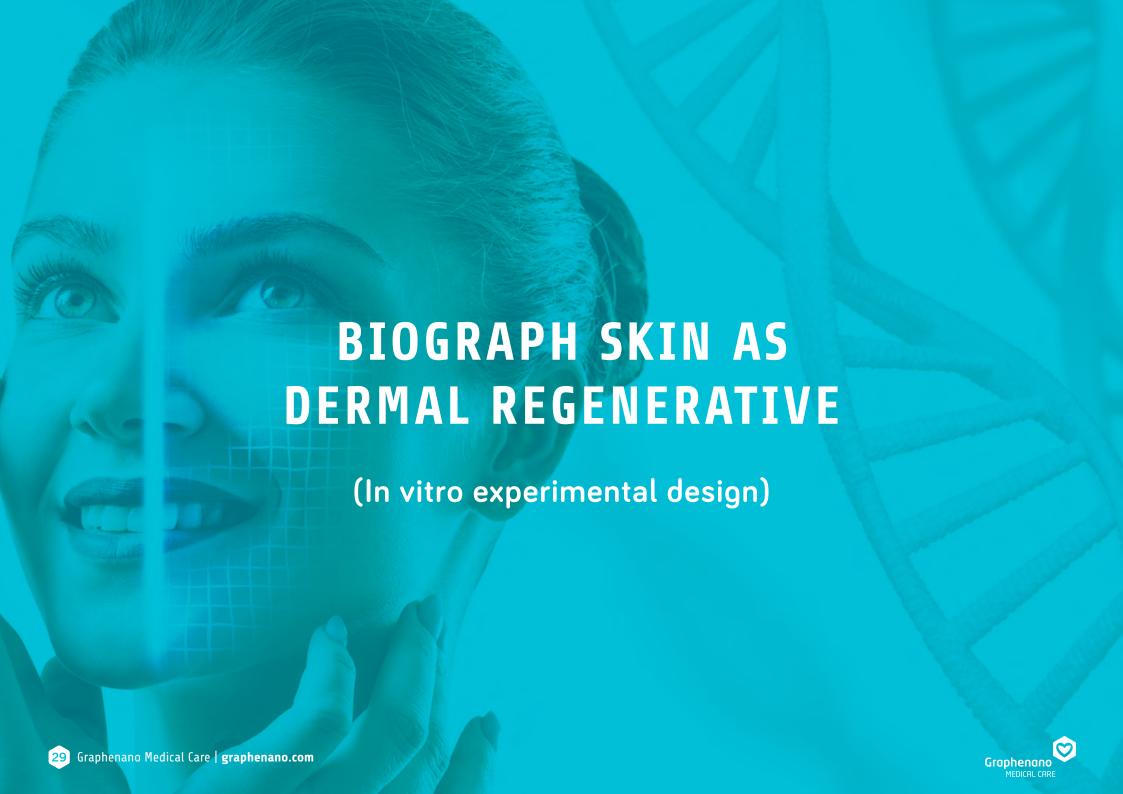
BIOGRAPH®-SLIM AS FAT ENTEROSORBENT AND ANTI-OBESITY AGENT

Verified efficacy.

Further research and tests shall still be carried on.

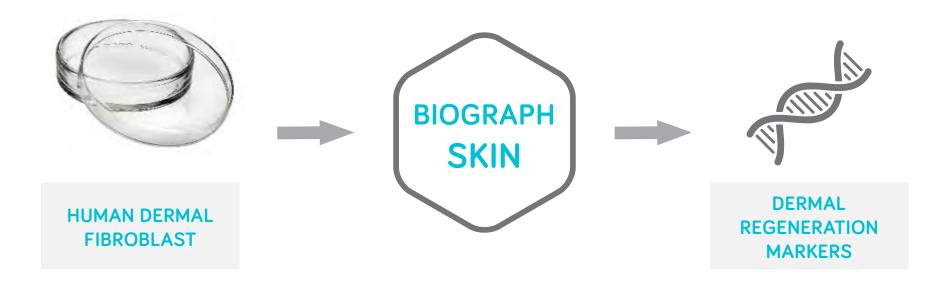
Preparation of the registration dossier will take time and registration by the health authorities is a long process and Will depend on final producto cathegory (foos supplement, Food for Special Medical Purpose,...





BIOGRAPH® SKIN AS DERMAL REGENERATIVE

(IN VITRO EXPERIMENTAL DESIGN)



Further research and tests shall still be carried on.

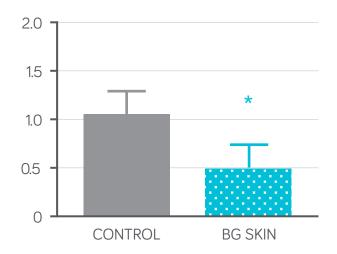
Preparation of the registration dossier will take time and registration by the local health authorities is a long process due to the fact that it will be a prescription product.



BIOGRAPH SKIN FACILITATES REGENERATION CAPACITY OF DERMAL FIBROBLASTS IN VITRO

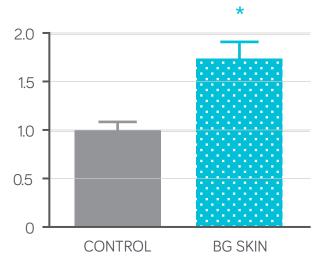
PRO-INFLAMMATION MARKER

TGF-BETA1 mRNA EXPRESSION FOLD CHANGE (VS CONTROL)

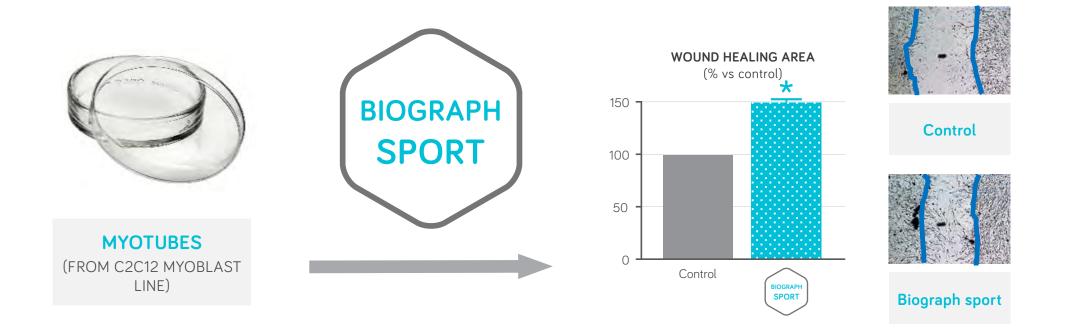


PRO-FIBROTIC MARKER

FIBRONECTIN mRNA EXPRESSION FOLD CHANGE (VS CONTROL)



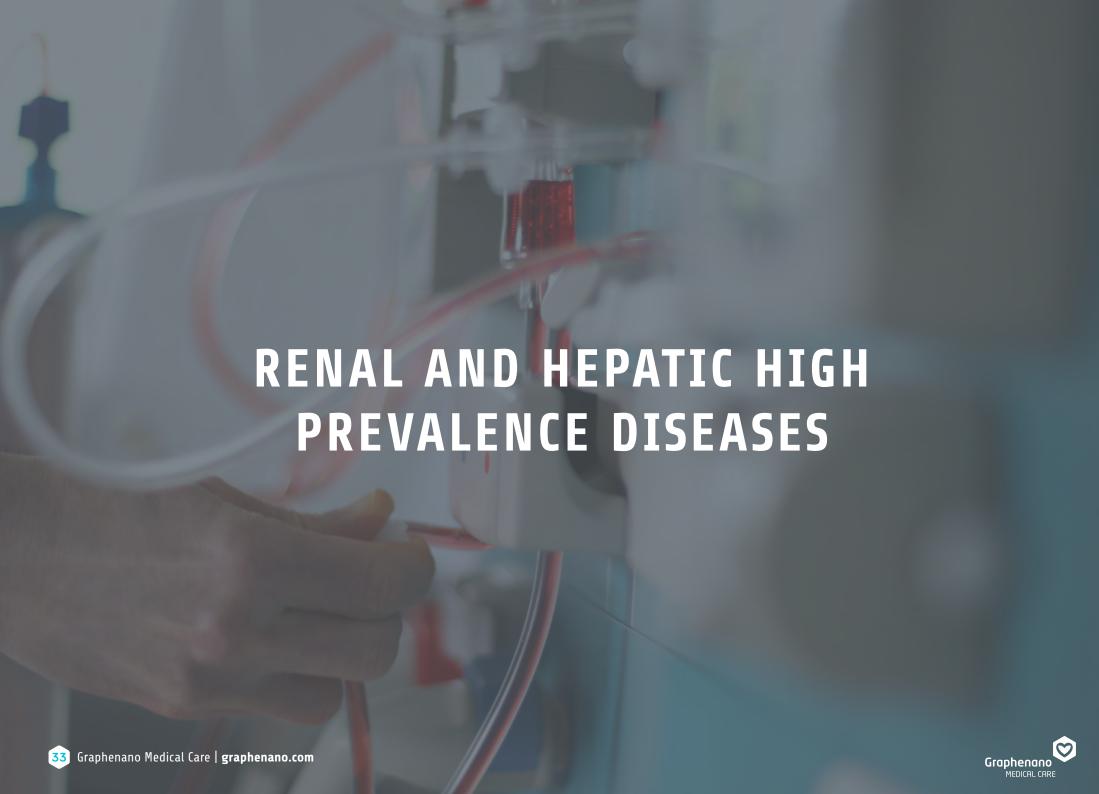
BIOGRAPH® SPORTS AS MUSCULAR REGENERATIVE



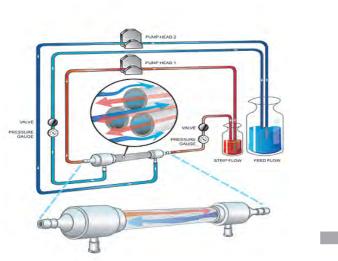
Further research and tests shall still be carried on.

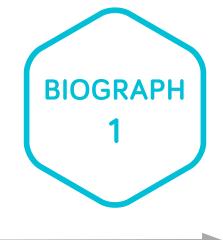
Preparation of the registration dossier will take time and registration by the local health authorities is a long process due to the fact that it will be a prescription product.





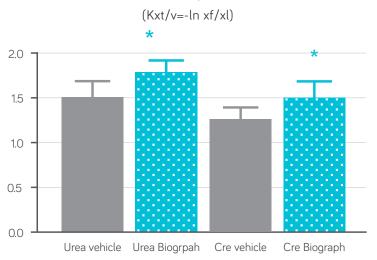
RENAL AND HEPATIC HIGH PREVALENCE DISEASES





BIOGRAPH® IN THE DIALYSIS LIQUID INCREASES THE DIALYSIS EFFICIENCY

15 MIN DIALYSIS LIQUID EFFICIENCY



Further research and tests shall still be carried on.

Preparation of the registration dossier will take time and registration by the local health authorities is a long process due to the fact that it will be a prescription product.



NEW GRAPHENE-BASED STRATEGIES IN THE DIALYSIS FIELD

Verified efficacy.

Further research and tests shall still be carried on.

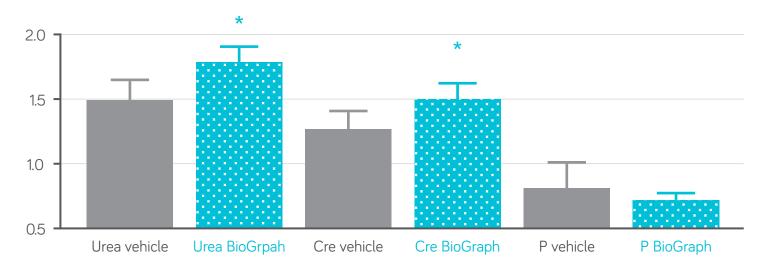
Preparation of the registration dossier will take time and registration by the health authorities is a long process and Will depend on final producto cathegory (foos supplement, Food for Special Medical Purpose,...

BIOGRAPH-1

IN THE DIALYSIS LIQUID INCREASES THE DIALYSIS EFFICIENCY

DIALISIS EFFICIENCIY

Blood-like serums were formulated with renal toxins (300 mg/dl urea, 10 mg/dl Cre and 6 mg/ml P). After 15 minutes of dialysis through a comercial dialyzer using the dialysis liquid formulated without (vehicle) or with the product, the dialysis efficiency was determined ($Kxt/v=-\ln xf/xl$). The values are represented as mean +/- SEM. *= P<0.05 vs. control, value considered statistically significant.



BIOGRAPH-4

IN THE DIALYSIS LIQUID INCREASES THE DIALYSIS EFFICIENCY

DIALISIS EFFICIENCIY

Blood-like serums were formulated with renal toxins (300 mg/dl urea, 10 mg/dl Cre and 6 mg/ml P). After 15 minutes of dialysis through a comercial dialyzer using the dialysis liquid formulated without (vehicle) or with the product, the dialysis efficiency was determined ($Kxt/v=-\ln xf/xl$). The values are represented as mean +/- SEM. *= P<0.05 vs. control, value considered statistically significant.

