Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sofia Zafiropoulou

Health director
Medical Center Tutati
Milano

What do these disciplines have in common?

- AESTHETIC MEDICINE
- REGENERATIVE MEDICINE
- ANTIAGING MEDICINE
- CELLULAR REPROGRAMMING

DEFINITION OF AESTHETIC MEDICINE

Aesthetic medicine is a medical branch, with an internal nature, which deals with improving the quality of life.
Aesthetic medicine includes multidisciplinary treatment for the preventive, corrective, restorative and rehabilitative action of every part of the human body.

DEFINITION OF REGENERATIVE MEDICINE

Regenerative medicine is a branch of medicine that, instead of treating the symptoms of a condition, trauma or disease, aims to replace, rebuild or repair tissues, cells and organs. Regenerative medicine employs molecular biology and stem cell research to stimulate the body's repair systems to effectively heal tissues and organs that are normally impossible to repair.

DEFINITION OF ANTIAGING MEDICINE

What anti-aging medicine aims to do is not to tackle the onset of the disease and lengthen a person's period of illness but to prevent early avoiding chronic degenerative diseases and prolonging the years of health and physical efficiency.

DEFINITION OF THE EPIGENETIC CODE

The epigenetic code is the genetic code that is present in its entirety in the embryo when life is formed.

In adult individuals it is divided into various organs and systems, and in each organ there is only that part of the epigenetic code that serves to regulate the gene expression of the cells present in a specific organ. The research on the function of embryonic differentiation factors has turned not only to the study of cellular reprogramming in tumors, but also to the aging processes and cellular degeneration in degenerative diseases.

DEFINITION OF CELLULAR REPROGRAMMING:

With cellular reprogramming we mean the biological effects of small molecules capable of triggering the regenerative potential in human tissues, which induce cell differentiation (reprogramming) for tissue repair and regeneration, giving them unlimited applications in the medical field..

IN THIS COURSE, WE WILL SEE HOW CELLULAR REPROGRAMMING CAN BE EFFECTIVELY APPLIED IN ALL THESE MEDICAL DISCIPLINES.

LET'S START WITH A LITTLE THEORY

Reprogram Cells

The physiological reprogramming mechanism of the cells is present, in perfect balance, in the human organism at its embryonic stage, which is therefore able to reconstruct the life cycle of the single cell. Unfortunately, over the years, this balance changes and the cells decay and die from natural or pathological causes. Now it is possible to reproduce this regeneration mechanism also in adult organisms, counteracting their decay or degeneration thanks to growth and differentiation factors.

It has been shown that the differentiation factors of stem cells taken from the Zebrafish egg, which has more than 90% of proteins in common with those of humans, are able to normalize the cell cycle and reprogram the cells in a physiological way (without alterations genetics).

Reprogram Cells

Reprogramming is a molecular biology procedure that involves a specific intervention on the basic biological program which is DNA. This intervention consists in restoring the nucleus of differentiated somatic cells to an undifferentiated condition, without affecting its functionality.

Epigenetics

Epigenetics is a branch of genetics that deals with inheritable phenotypic changes from a cell or organism, in which no genotype variation is observed.

Epigenetics and cellular diversity of an individual

The different mechanisms of epigenetic regulation are responsible for the cell diversity of an organism in which all cells have the same genome, but have different phenotypes and different gene expression profiles

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

The Epigenetic Code or Epigenome determines the cellular phenotype

The epigenome decides whether a gene must be off or on in every single cell and this process makes cellular differentiation possible in which all the cells of an organism have the same DNA at the beginning, but have a different phenotype.

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

Epigenetics and cell differentiation

In fact, cell differentiation consists of a specific and selective epigenetic regulation, which decides which genes must be turned on and which should be turned off, so at the end of the process all cells have the same genome, but a different phenotype.

MD Sophia Zafiropoulou

Materials and methods

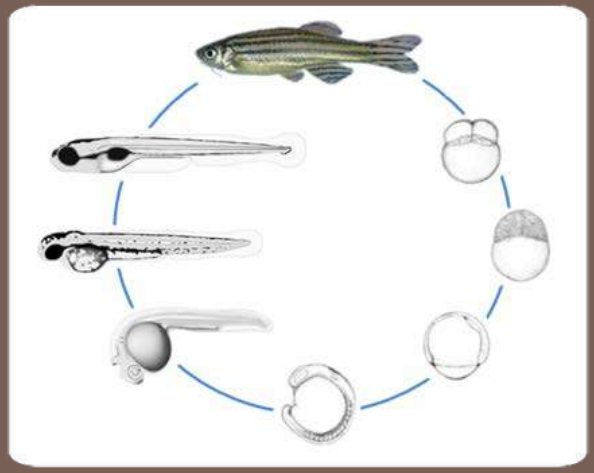
- The differentiation factors extracted from Zebrafish are used during organogenesis
- (galenic product)

- Molecular application of Zebrafish extracts using the Criopass Therapy technique
- (Molecular Laser appliancatio)

Zebrafish

The Zebrafish, or Danio rerio, is a freshwater fish that in recent years has become the most used animal model in the world in laboratory studies, thanks to its particular characteristic. At specific moments in the growth of Zebrafish embryos, using sophisticated techniques, it is possible to obtain the entire epigenetic code capable of reprogramming human cells and differentiating them.

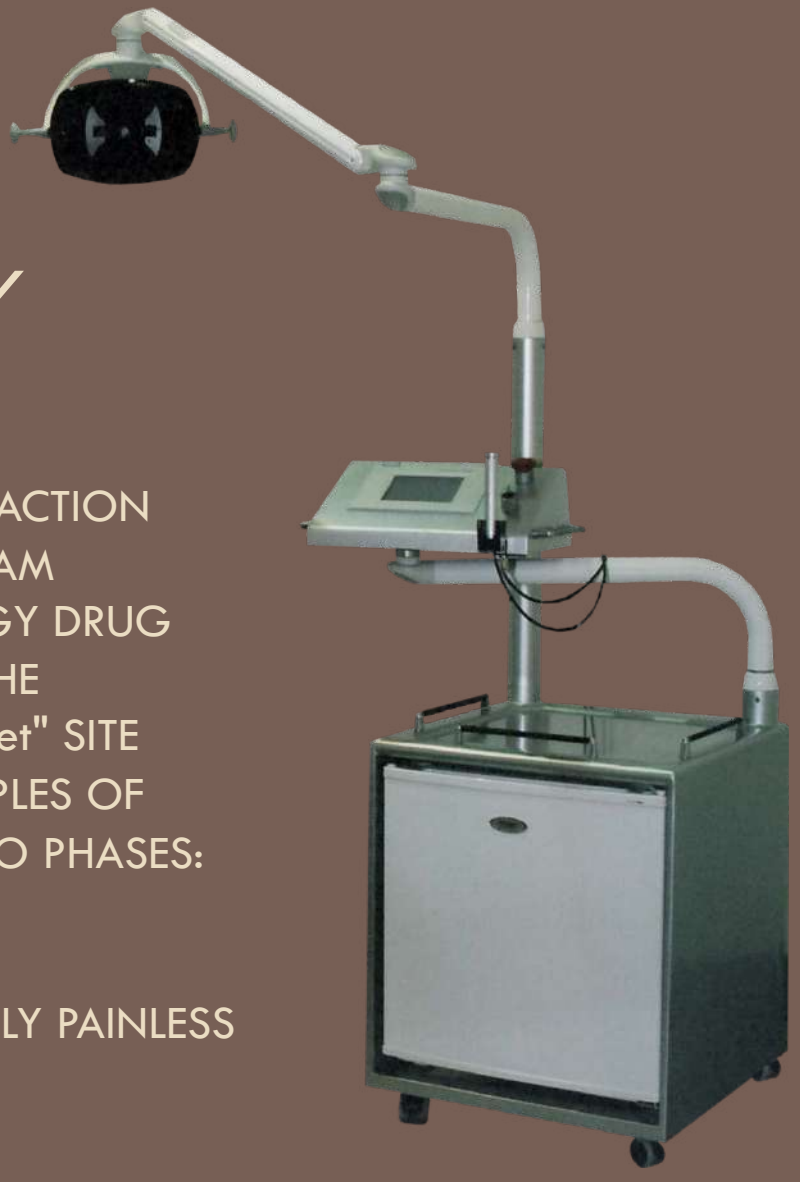
Zebrafish



"GROWTH and DIFFERENTIATION FACTORS have significant biological activity, which is essential for maintaining cellular health. Some proteins are important for the life of mitochondria, others have the function of regulating the cell cycle, the immune response and so on. Therefore, the biological molecules of ROE EXTRACT are essential to keep the cells of our body in optimal health conditions and revitalize the tissues, minimizing the phenomena of aging.."

It has been shown that the differentiation factors of stem cells taken from the Zebrafish egg, which has more than 90% of proteins in common with those of humans, are able to differentiate the cell cycle and reprogram the cells in a physiological way (without alterations genetics).

MOLECULAR LASER
CRYOPASS THERAPY
HOW DOES IT WORK :



IT IS AN INSTRUMENT THAT USES THE KINETIC ACTION GENERATED BY THE PHOTONS OF A LASER BEAM (wavelength 635 nm) TO "charge" WITH ENERGY DRUG MOLECULES FROZEN AT -18° C, FAVORING THE TRANSDERMAL PENETRATION UP TO THE "target" SITE
CRYOPASS THERAPY IS BASED ON THE PRINCIPLES OF QUANTUM PHYSICS AND TAKES PLACE IN TWO PHASES:
FIRST PHASE - "molecular excitation"
SECOND PHASE - "molecular diffusion"
THE DRUG PENETRATION TREATMENT IS TOTALLY PAINLESS

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

HOW TO USE IT

AS THE FIRST OPERATION, THE DRUG THAT IS INTENDED TO BE CARRIED OUT IS DISSOLVED IN THE "Laser Ice" CRYOAPPLICATOR CONTAINING A "gel" DESIGNED SPECIALLY TO HELPS THE DISTRIBUTION OF THE DRUG

THEREFORE AND FREEZES AT – 18C°

THERAPY IS PERFORMED BY CONNECTING THE FROZEN CRYO APPLICATOR TO THE LASER SOURCE TO PERFORM THE APPLICATION TRANSDERMALIY

DRUG PENETRATION

FIRST PHASE "molecular excitation"
THE CRYO APPLICATOR IS APPLIED DIRECTLY ON THE SKIN IN THE ANATOMICAL DISTRICT TO BE TREATED
THE BODY HEAT MELTS THE FROZEN CRYO APPLICATOR RELEASING THE ENERGY "trapped" IN THE DRUG MOLECULES THAT PASS THE SKIN BARRIER CONCENTRATING UNDER THE DERMA

DRUG PLACEMENT

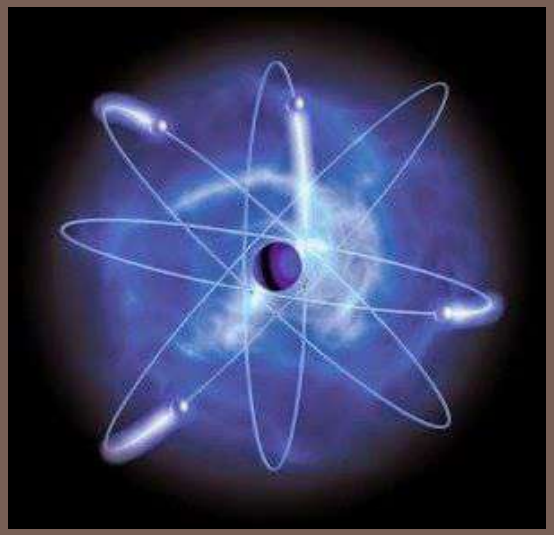
SECOND PHASE "molecular diffusion"
THE DRUG MOLECULES CONCENTRATED IN THE EXTRACELLULAR MATRIX ARE AGAIN "excited" USING A SECOND SCANNING LASER TO OBTAIN AN EXPLANATION OF THE DRUG THROUGH THE TISSUES UNTIL THEY REACH THE "target" SITE

A SPECIFIC SOFTWARE AUTOMATICALLY ADJUSTES ALL PARAMETERS TO OBTAIN THE DRUG CONCENTRATION IN THE SELECTED ANATOMICAL DISTRICT

MOLECULAR LASER - QUANTUM PHYSICS

QUANTUM PHYSICS IS THE STUDY OF VERY SMALL OBJECTS, SUCH AS ELECTRONS AND ATOMS, CONSEQUENTLY QUANTUM MEDICINE DESCRIBES THE INTERACTION OF THEM WITH THE ELEMENTARY STRUCTURES OF THE HUMAN BODY
THE UNIT OF MEASUREMENT: "quantum" OF LIGHT IS THE "photon", "quantum" OF MATTER IS "the electron".

"Quantum" CAN BE BOTH WAVE AND PARTICLE
QUANTUM PHYSICS DOES NOT FOLLOW THE TRADITIONAL RULES OF CLASSICAL PHYSICS, IN THE INFINITELY SMALL NOTHING IS CERTAIN, BUT ONLY PROVABLE, OR YOU CANNOT KNOW WITH PRECISION WHERE A " quantum" IS OR WHERE IT IS GOING, BUT YOU CAN PROBULD IT ', AS FOR EXAMPLE THE PROBABILITY THAT AN ELECTRON FOLLOWS A CERTAIN TRAJECTORY OR A PHOTON IMPACT WITH AN ELECTRON CAUSING
"A quantum leap"

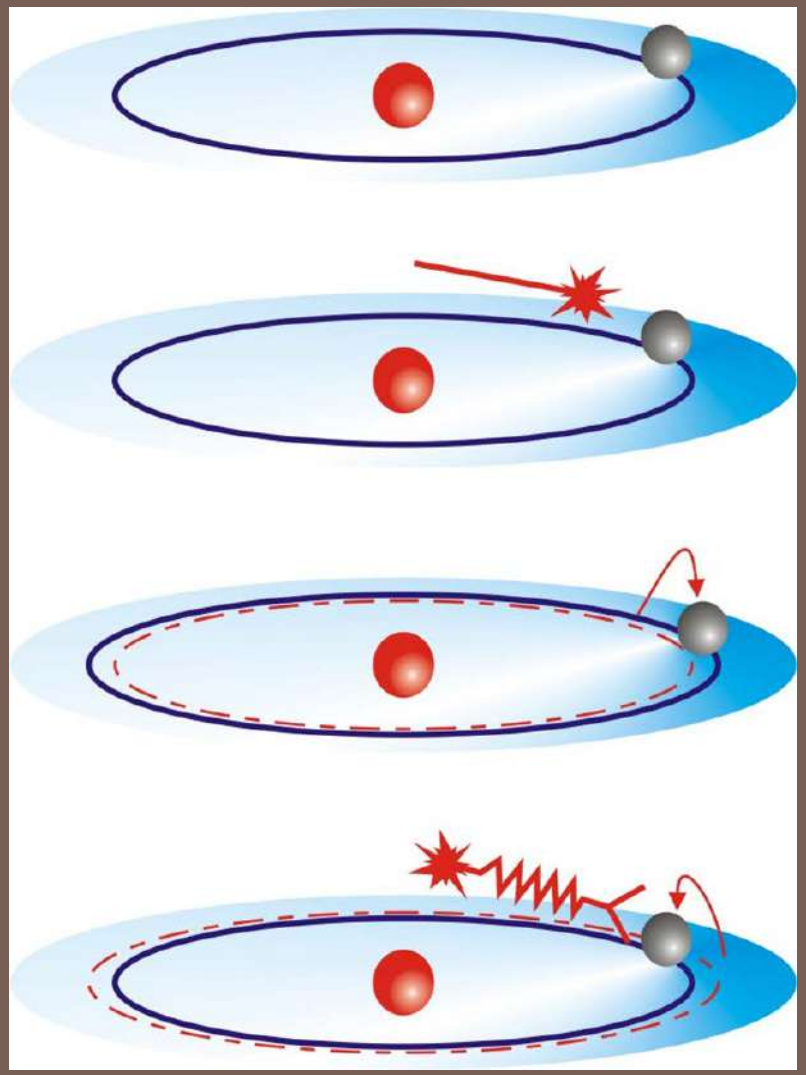


MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

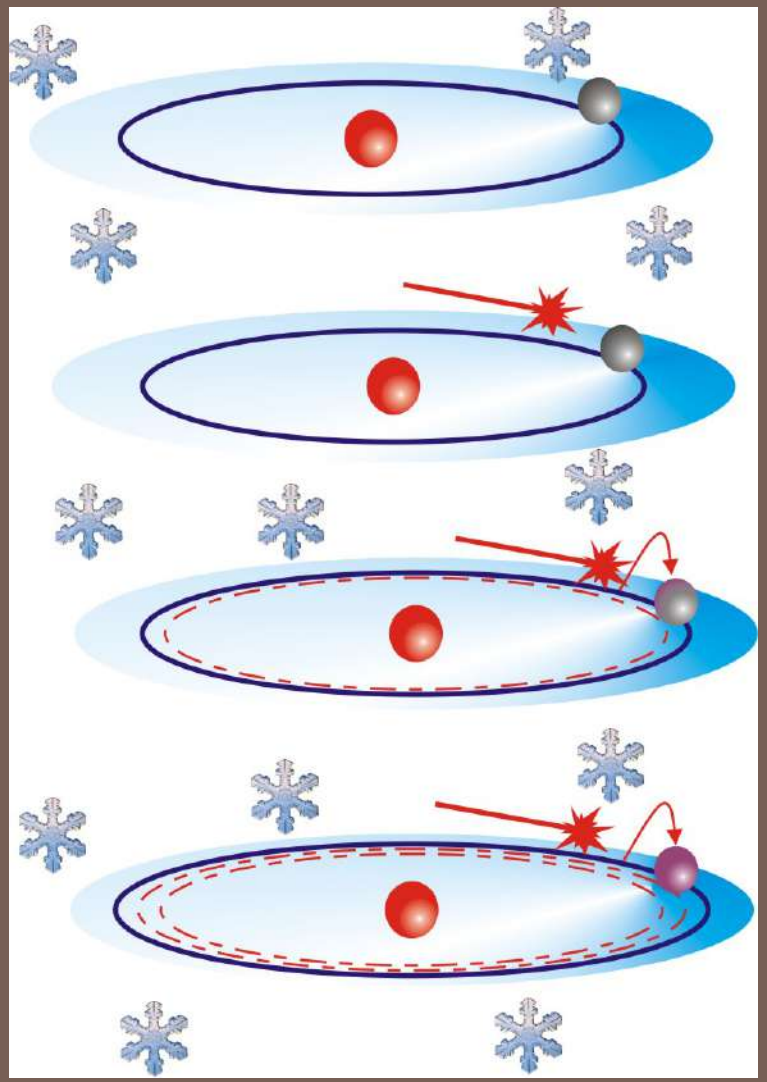
FIRST PHASE
MOLECULAR EXCITATION

ROOM TEMPERATURE
IF A PHOTON HITS THE ELECTRON OF A MOLECULE, THE ENERGY APPLIED TO THE ELECTRON CAUSES IT TO PASS TO A HIGHER ENERGY LEVEL. "Quantum leap"
THIS ENERGY LEVEL IS NOT STABLE, SO THE ELECTRON RETURNS TO ITS ORIGINAL LEVEL BY RE-EMITING A PHOTON



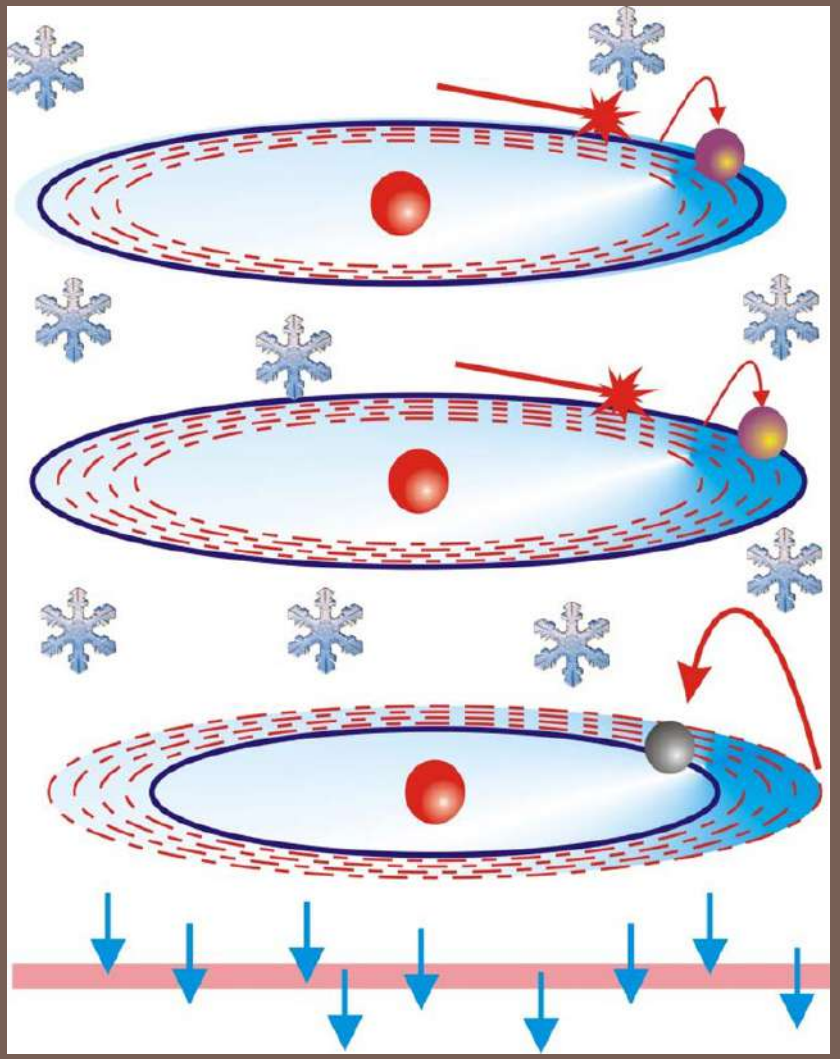
FIRST PHASE
MOLECULAR EXCITATION

TEMPERATURE - 18C °
IF WE APPLY "photonic" ENERGY TO THE LOW TEMPERATURE MOLECULE AGAIN, WE OBSERVE THAT THE ELECTRON DECAY PROCESS AT THE INITIAL LEVEL IS SLOWER THAN THE ELECTRON EXCITATION PROCESS AT A HIGHER ENERGY LEVEL
THEREFORE THEREFORE AN ACCUMULATION OF POTENTIAL ENERGY AT THE MOLECULE LEVEL



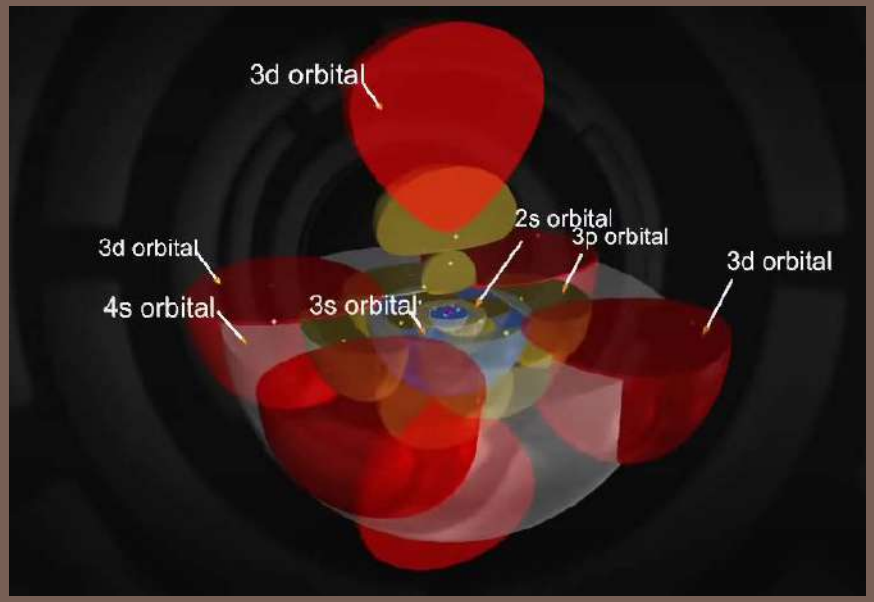
FIRST PHASE MOLECULAR EXCITATION

CRYOAPPLICATOR - CUTE INTERFACE THE ENERGY FORWARDED BY THE MOLECULE IS HELD IN THE ORBITALS AT A HIGHER ENERGY LEVEL BY LOW TEMPERATURES IN THE FORM OF POTENTIAL ENERGY. IN CONTACT WITH THE SKIN, THE PRODUCT INCREASES THE TEMPERATURE AND MELTS, INSTANTLY RELEASING THE ENERGY ACCUMULATED AS KINETIC ENERGY, ALLOWING THE PENETRATION OF THE DRUG UP TO THE DERMA

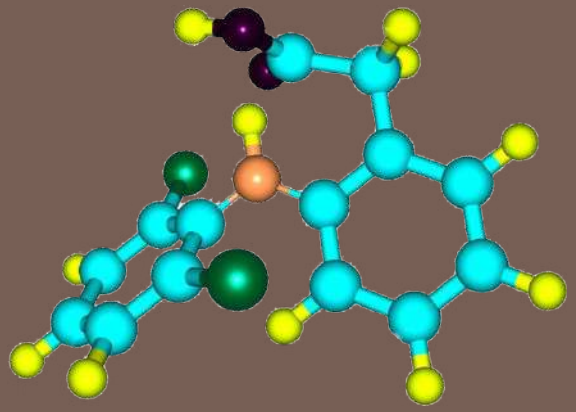


FIRST PHASE MOLECULAR EXCITATION

BUT LET'S SEE WHAT ACTUALLY HAPPENS, THE MOLECULES HAVE AN ELECTRONIC CLOUD IN WHICH THE ELECTRONS ORBIT, THE PHOTONIC STIMULATION AT "low temperature" CAUSES A DEFORMATION OF THE ORBITAL DUE TO THE ABSORPTION OF ENERGY ON THE MOLECULE
"The release of this energy will allow the passage of the skin barrier"

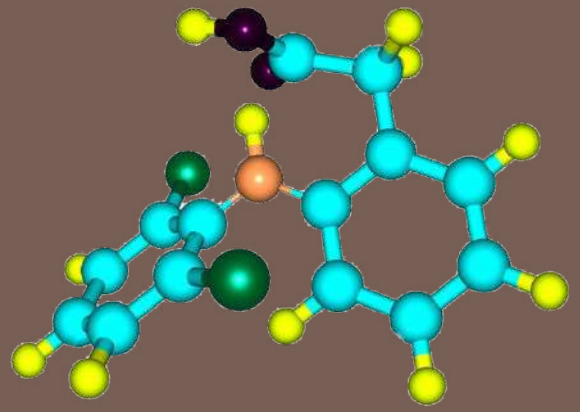


FIRST PHASE MOLECULAR EXCITATION

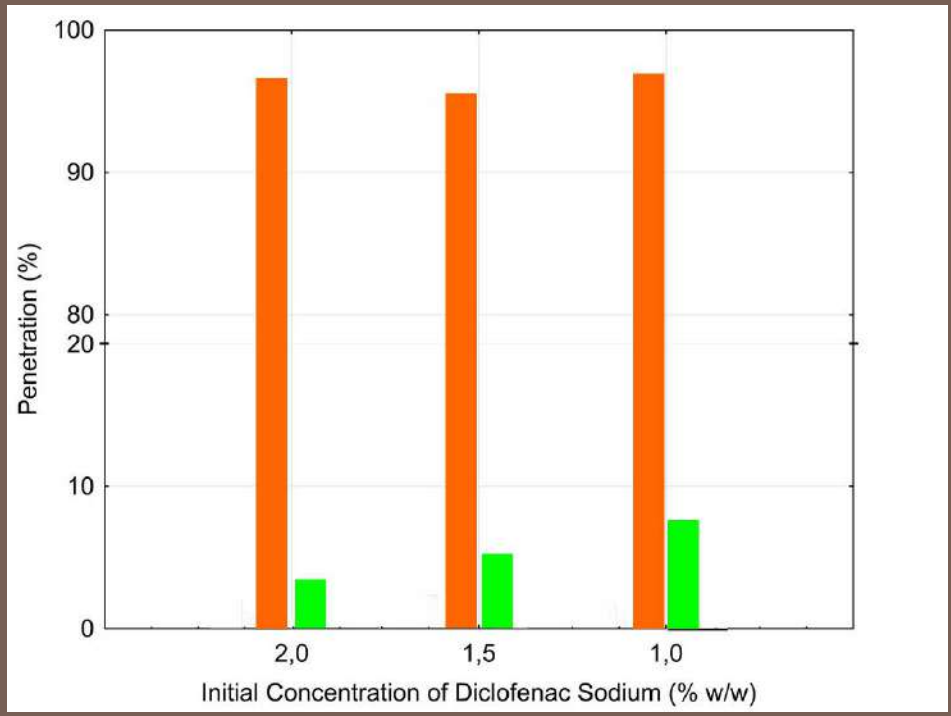


A SIMPLE EXPERIMENT ALLOWS TO TEST THIS CAPACITY OF PENETRATION USING "Franz's cell" WHERE A DISK OF EPIDERMIS SEPARATES THE PRODUCT TO BE TESTED ON ONE SIDE, A RECEIVING SOLUTION ON THE OTHER
THE SYSTEM IS THERMOSTATED AT 37C °
TO SIMULATE THE BODY TEMPERATURE.
THE EXPERIMENT PROVIDES A TEST WITH A DRUG SOLUTION, COMPARED WITH THE SAME CONCENTRATION INSERTED IN A FROZEN CRYOAPPLICATOR AND COUPLED TO THE LASER SOURCE

FIRST PHASE MOLECULAR EXCITATION



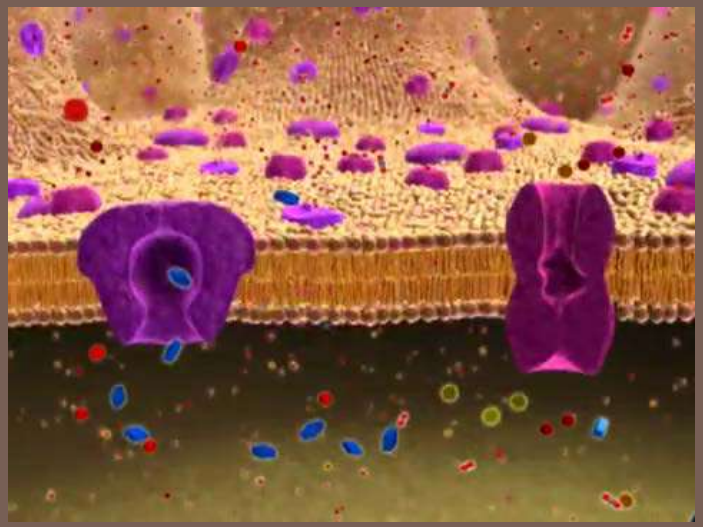
DICLOFENAC SODIUM TEST SOLUTIONS USED:
DICLOFENAC SODIUM 1%
DICLOFENAC SODIUM 1,5%
DICLOFENAC SODIUM 2%
FROM THE "red" GRAPH IT IS NOTED THAT THE DRUG APPLIED WITH THE CRYOAPPLICATOR GUARANTEES THE PASSAGE TO THE UNDERLYING SOLUTION OF MORE THAN 90% OF THE PRODUCT, WHILE USING A SOLUTION WITHOUT LASER APPLICATION THE PASSAGE IS ALWAYS LESS THAN 10% "green"



SECOND PHASE - MOLECULAR DIFFUSION

THE "matrix of life" MODEL IS ONE OF THE MOST IMPORTANT DEVELOPMENTS IN MODERN SCIENCE FOR A BETTER UNDERSTANDING OF THE STRUCTURE AND OF THE ENERGY EXCHANGES THAT OCCUR IN THE EXTRACELLULAR MATRIX, A WHOLE "interconnected" CONTINUOUS SYSTEM COMPOSED OF A DYNAMIC CRYSTAL MULTI NETWORK AND DYNAMICS, "liquid crystal structure"

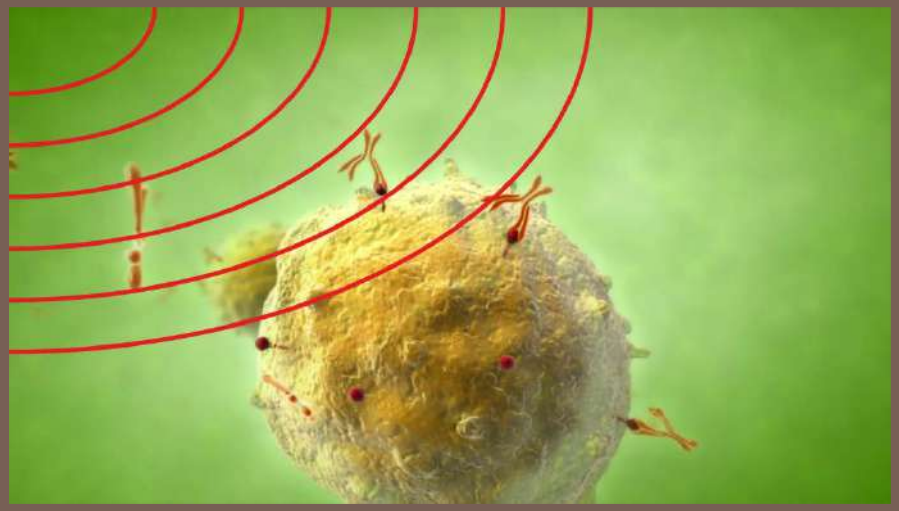
FORM A "semiconductor" COMMUNICATION NETWORK CAPABLE OF CARRYING BIOELECTRONIC SIGNALS AND MOLECULES BETWEEN CONNECTIVES AND CYTOSKELETERS OF ALL THE BODY CELLS



SECOND PHASE - MOLECULAR DIFFUSION

PHOTOBIOLOGY EXPLAINS THE EFFECT THAT LIGHT HAS ON A LIVING BIOLOGICAL SYSTEM, IN PARTICULAR THE ABSORPTION OF LOW INTENSITY PHOTONS BY THE "matrix of life"

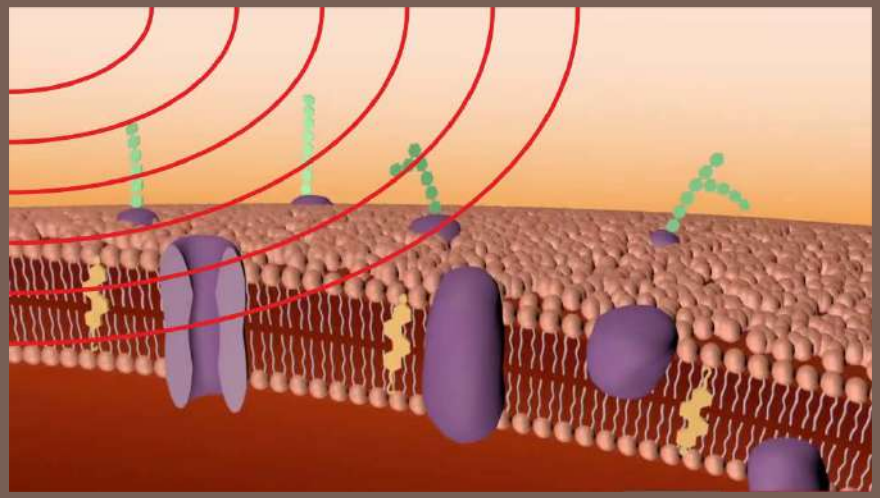
THERE IS AN "optical window" BETWEEN 600 TO 950 nm WHERE THE TISSUE PENETRATION IS MAXIMUM IN WHICH "photons" CAN ACTIVATE CELLULAR PHOTORECEPTORS OR ACCELERATE ELECTRONIC TRANSFER REACTIONS



SECOND PHASE - MOLECULAR DIFFUSION

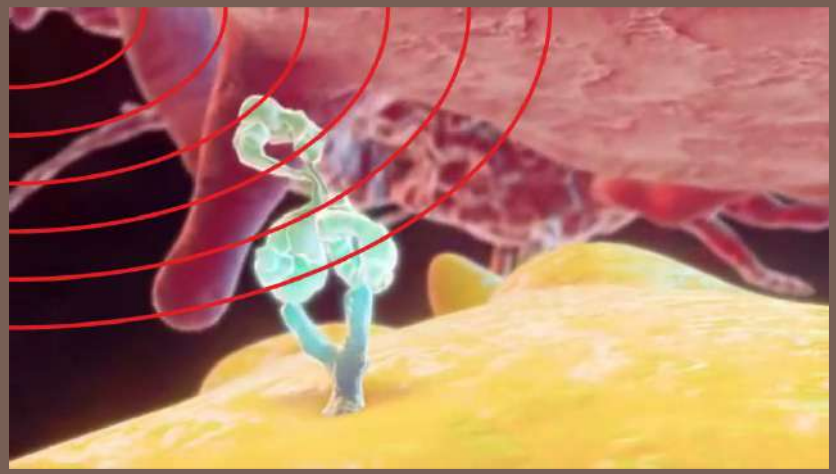
IN PARTICULAR, THE INTERACTION BETWEEN "photons" AND PHOTORECEPTOR TAKES PLACE ON ENZYMATIC PROTEIN COMPONENTS, THE "C-cytochrome-oxidase" WHOSE EXCITATION FREQUENCY IS 635nm, ACTIVATION INCREASES ENERGY PRODUCTION IN THE FORM OF ATP

THE DRUG MOLECULES NOW DIFFUSED IN THE "matrix of life" ARE FREE TO MOVE THROUGH THE LIQUID CRYSTAL STRUCTURES, TO REACH THE ENERGY EXCHANGE POINTS PRESENT ON THE CELL MEMBRANE AND BE USED.
- EXACTLY THE SAME MECHANISM THAT OCCURS WITH A SYSTEMIC ADMINISM, BUT WITH A MORE TARGETED ACTION.



SECOND PHASE - MOLECULAR DIFFUSION

LASER STIMULATION FURTHER PROMOTES THE CAPACITY OF DRUG MOLECULES, BY CELLULAR RECEPTORS, INCREASING THE CAPACITY OF THE THERAPEUTIC EFFECTIVENESS, ESPECIALLY IN A SYSTEMICALLY WAY.



SECOND PHASE - MOLECULAR DIFFUSION

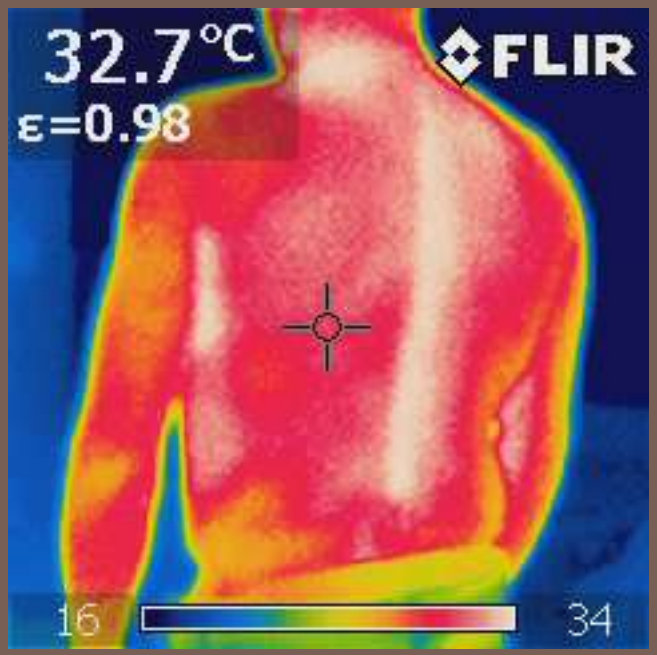
INSTRUMENTAL INVESTIGATION
WITH A SIMPLE EXPERIMENT IT IS POSSIBLE TO HIGHLIGHT THE ANSWER IN THE "matrix of life" OF INCREASE IN ATP PRODUCTION

PATIENT WITH SPORTS TRAUMA BILATERAL MUSCULAR CONTRACTURE IN LUMBUS - SACRAL CORRESPONDENCE TREATED WITH CRYOAPPLICATOR CONTAINING MUSCORIL AND DICLOFENAC.

SECOND PHASE - MOLECULAR DIFFUSION

YOU ARE USING A THERMAL CAMERA WITH A TEMPERATURE RESOLUTION 0.1C °

THERMOGRAPHY BEFORE CRIOPASS THERAPY TREATMENT NO PARTICULAR TEMPERATURE CHANGES ARE OBSERVED IN THE AREAS AFFECTED BY TRAUMA
ONLY BY USOGRAPHY IT IS POSSIBLE TO HIGHLIGHT THE ALTERATIONS OF THE STRUCTURES



LA TERMOGRAFIA PRIMA DEL TRATTAMENTO

SECOND PHASE - MOLECULAR DIFFUSION

AFTER THE TREATMENT, WE CAN OBSERVE POINTS OF HYPERTHERMIA LOCALIZED EXACTLY IN CORRESPONDENCE OF THE MUSCULAR INJURY POINTS, THAT IS TO EMPHASIZE HOW THE THERAPY IS TARGETED BECAUSE IN CORRESPONDENCE OF THE CELLS INTERESTED WITH THE PROCESSES ATP RELEASE, WHICH CAN BE REVEALED BY THE INCERMENTATION OF TEMPERATURE

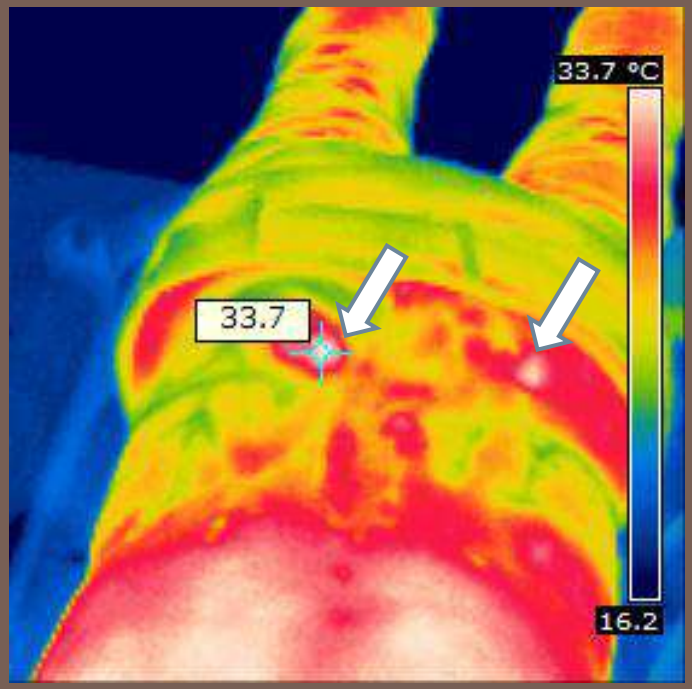


IMMAGINE TERMOGRAFICA A FINE TERAPIA

- *Wrinkle regeneration*
- *Hair regeneration*

- *Reprogramming of ulcerated tissues*
- *Keloid reprogramming*
- *Reprogramming scars*

- *Breast ptosis*
- *Pefs and localized adiposity*

DEEP REGENERATION
WRINKLES

PATIENT 50 YEARS
DEEP FACE WRINKLES
TREATED WITH MOLECULAR LASER
1 THERAPY PER WEEK FOR 4 WEEKS

THERAPEUTIC PROTOCOL
Sodium Hyaluronate
differentiation factors and growth factors
extracted from Zebrafish embyos

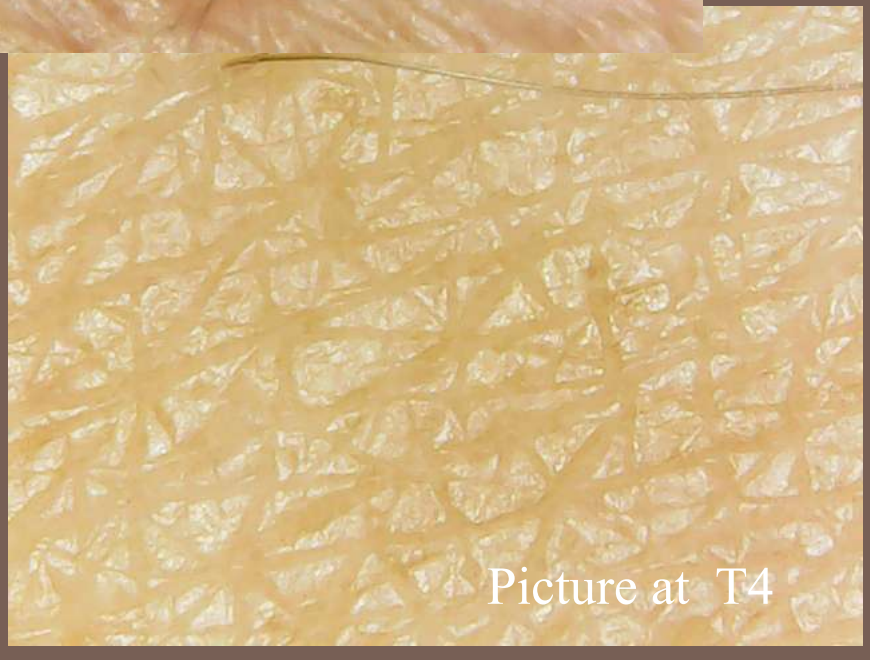
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

PATIENT 50 YEARS
FACE WRINKLES
TREATED WITH MOLECULAR LASER
1 THERAPY PER WEEK FOR 4 WEEKS

epigenetic regulation in skin regeneration with growth and differentiation factors of stem cells from the Zebrafish embryos



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

PATIENT 70 YEARS
DEEP WRINKLES PERIORAL AREA, CHIN AND CHEEKS TREATED WITH MOLECULAR LASER

epigenetic regulation in skin regeneration with growth and differentiation factors of stem cells from the zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

PATIENT 70 YEARS
DEEP WRINKLES PERIORAL AREA, CHIN AND CHEEKS TREATED WITH MOLECULAR LASER
DURATION 30 DAYS
1 THERAPY EVERY 5 DAYS

epigenetic regulation in skin regeneration with growth and differentiation factors of stem cells from the zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

PROTOCOLLO TERAPEUTICO

cycle therapy: 30 days therapy

Sodium Hyaluronate

differentiation factors extracted from Zebrafish embyos

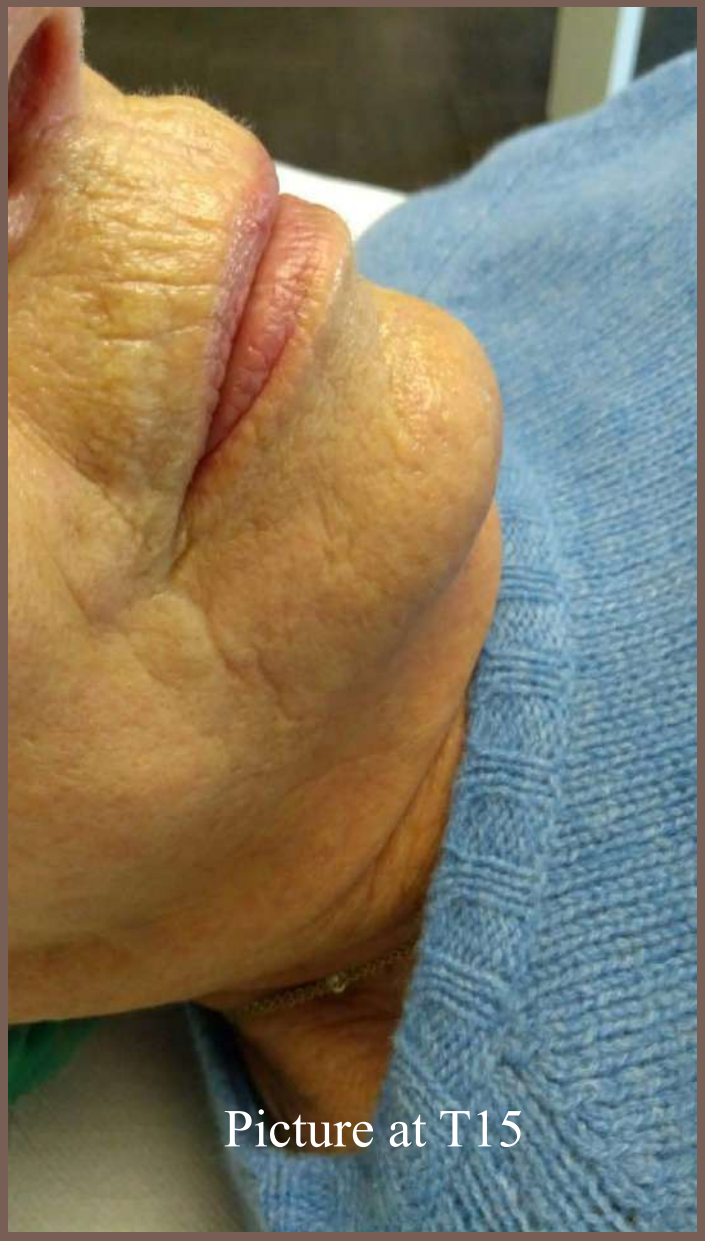
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

ALREADY FROM THE THIRD THERAPY, IT CAN BE OBSERVED HOW THE SKIN STRUCTURE BEGINS TO SHOW A NET IMPROVEMENT DUE TO:

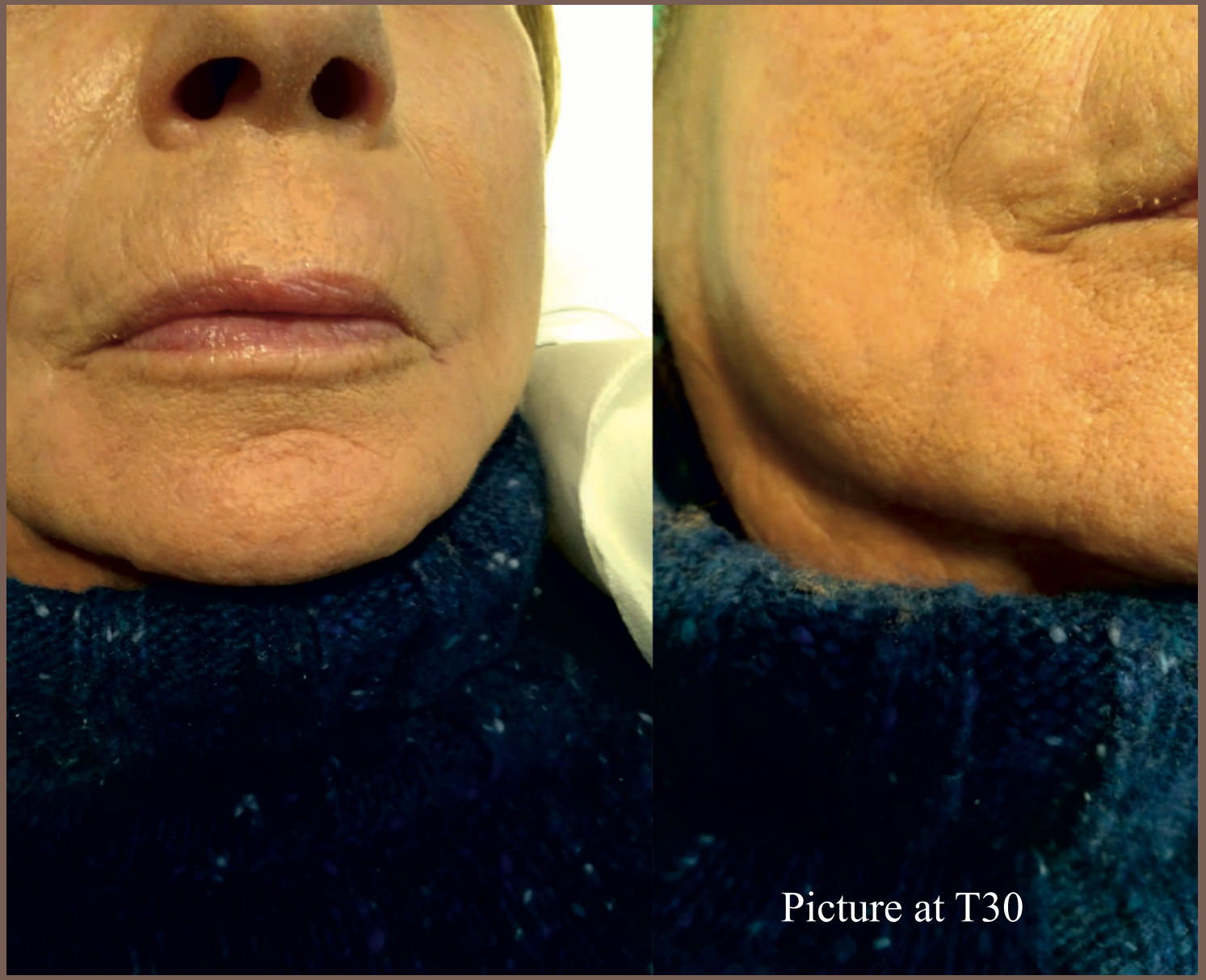
epigenetic regulation in tissue regeneration obtained with growth and differentiation factors of stem cells from the Zebrafish embryos



DEEP REGENERATION WRINKLES

MD Sophia Zafiropoulou

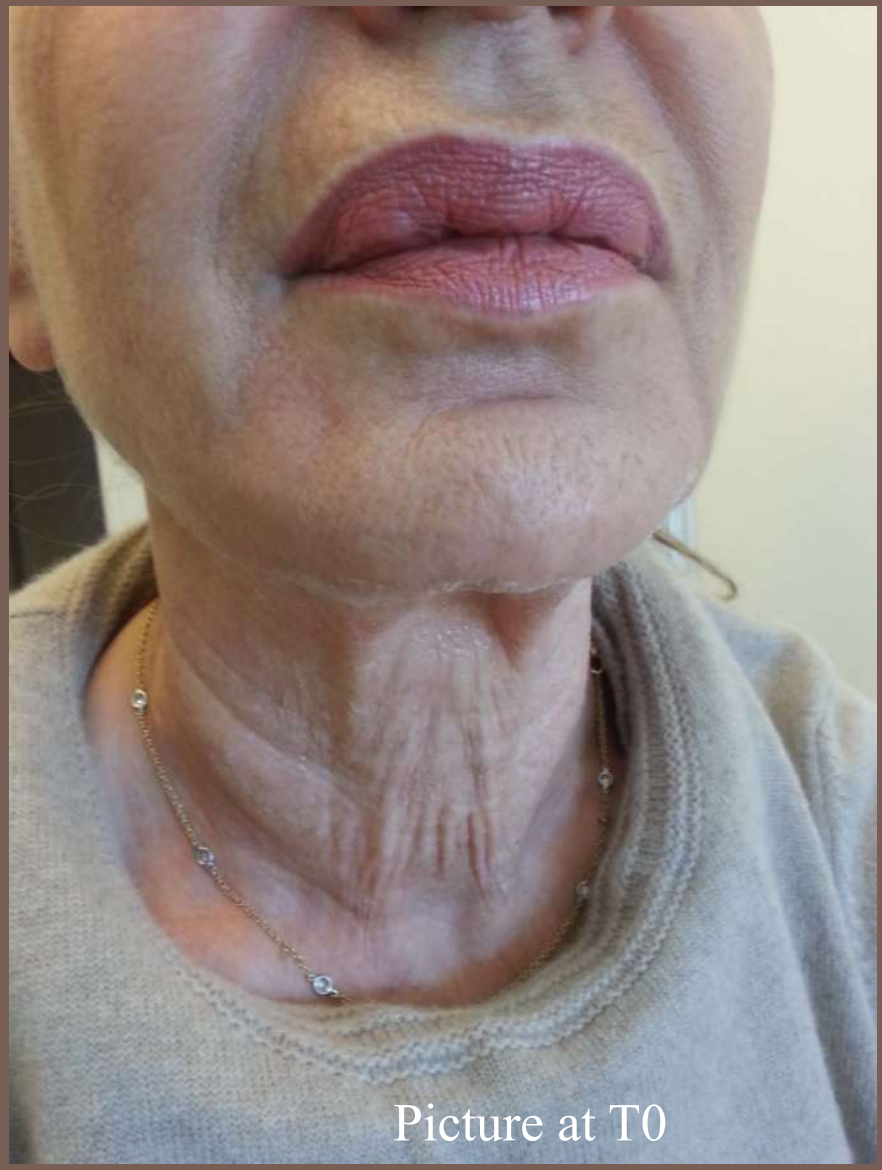
Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine


Picture at T30

DEEP REGENERATION WRINKLES

PATIENT 63 YEARS
WRINKLES NECK
TREATED WITH MOLECULAR LASER

epigenetic regulation in skin regeneration with growth and differentiation factors of stem cells from the zebrafish embryos

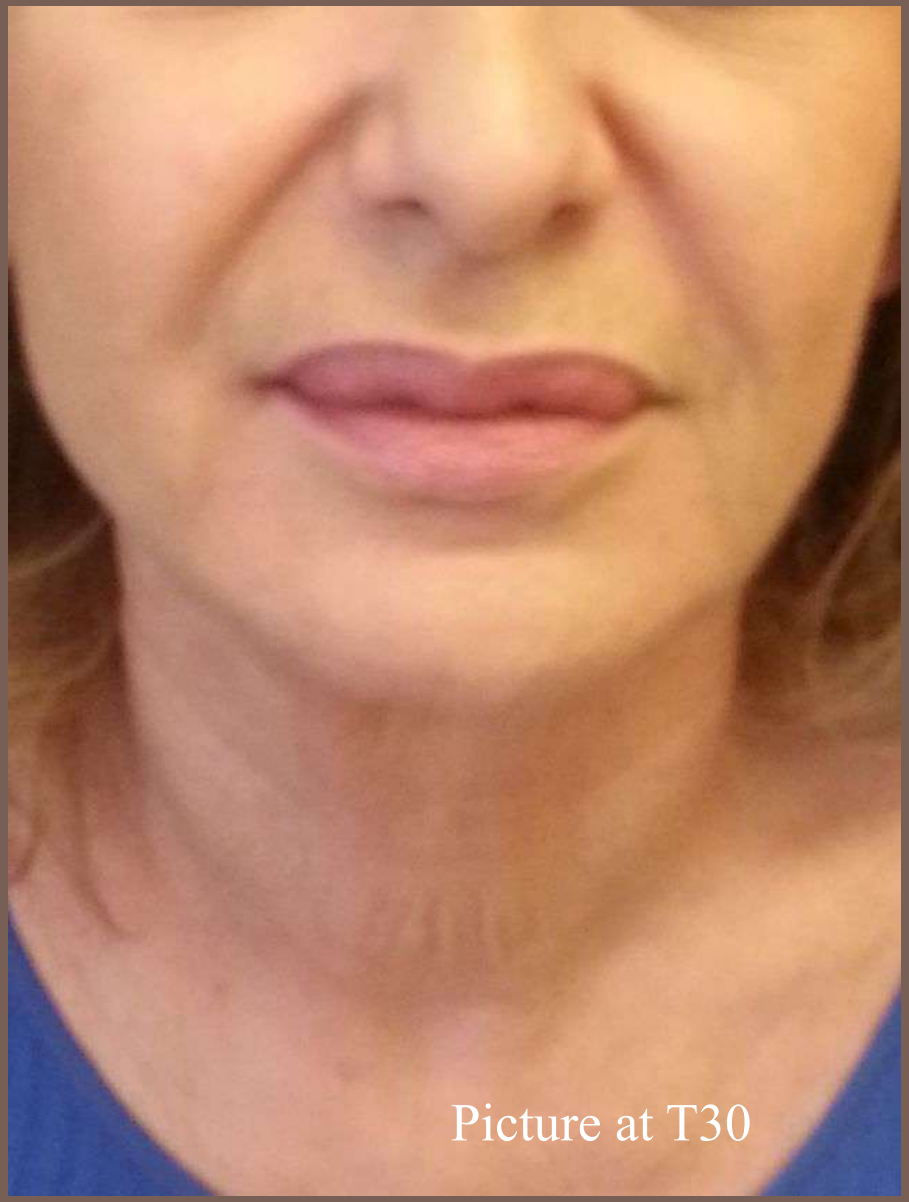


MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP REGENERATION WRINKLES

THERAPEUTIC PROTOCOL
cycle therapy: 30 days
1 therapy every 5 days
Sodium Hyaluronate
differentiation factors and growth factors extracted from Zebrafish embryos



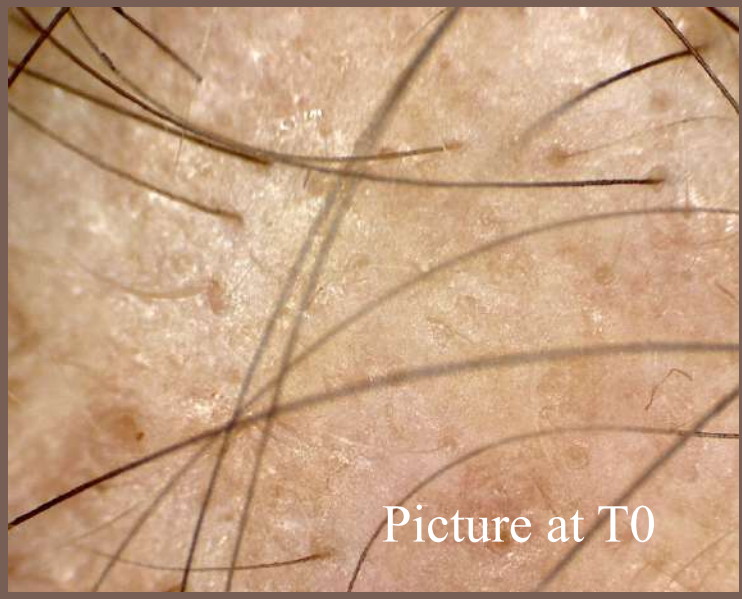
MD Sophia Zafiropoulou

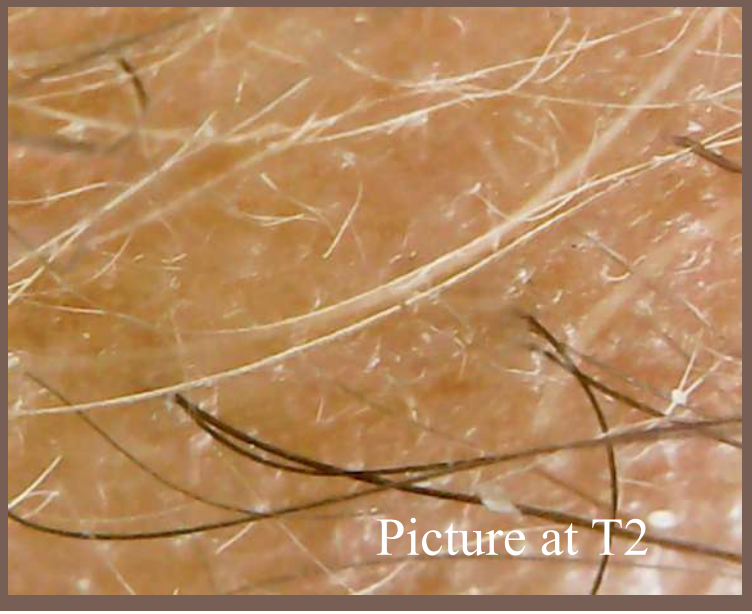
Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

PATIENT 59 YEARS
ANDROGENETIC ALOPECIA
TREATED WITH CRIOPASS THERAPY
1 THERAPY PER WEEK FOR 10 WEEKS

epigenetic regulation in hair regeneration with stem cell growth and differentiation factors from the Zebrafish embryos





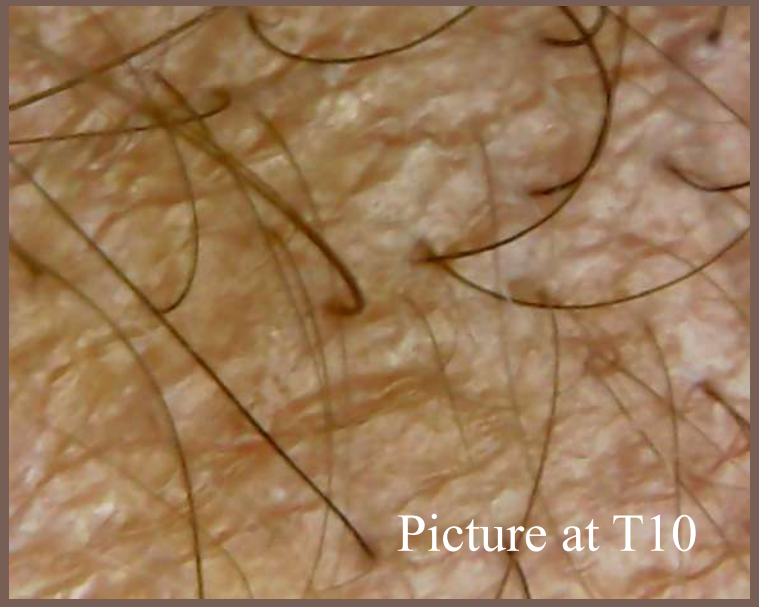
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

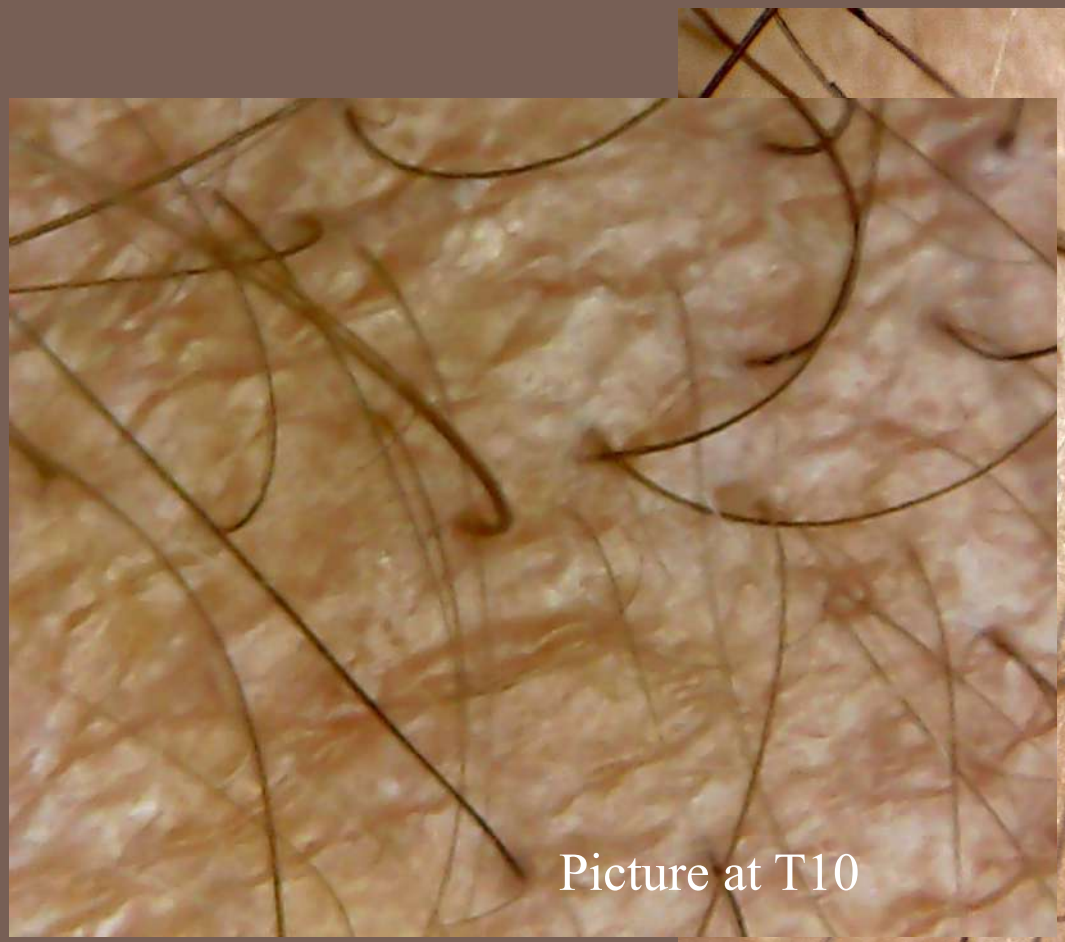
THERAPEUTIC PROTOCOL
1 THERAPY PER WEEK FOR 10 WEEKS

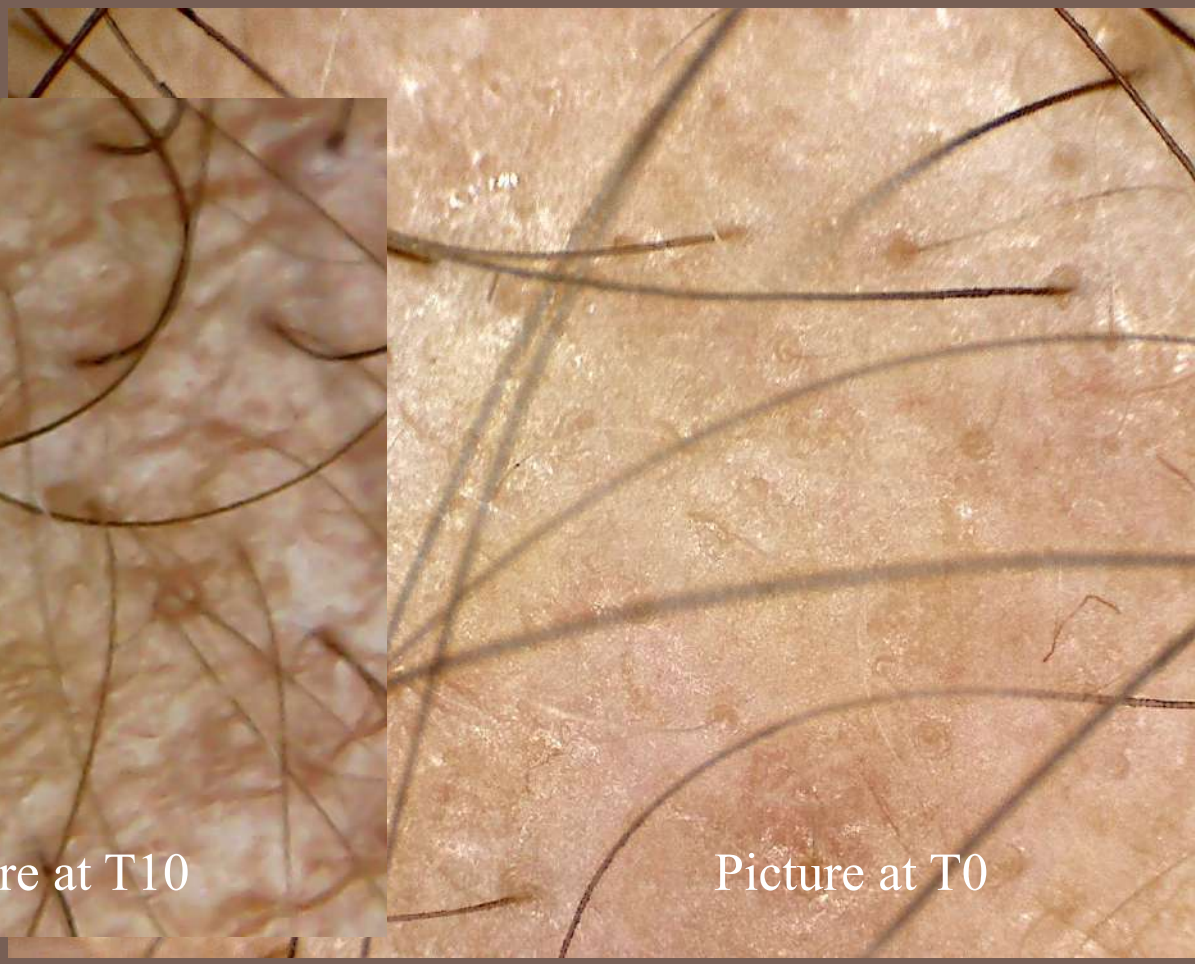
Sodium Hyaluronate
Polypeptides from Zebrafish embyos



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine





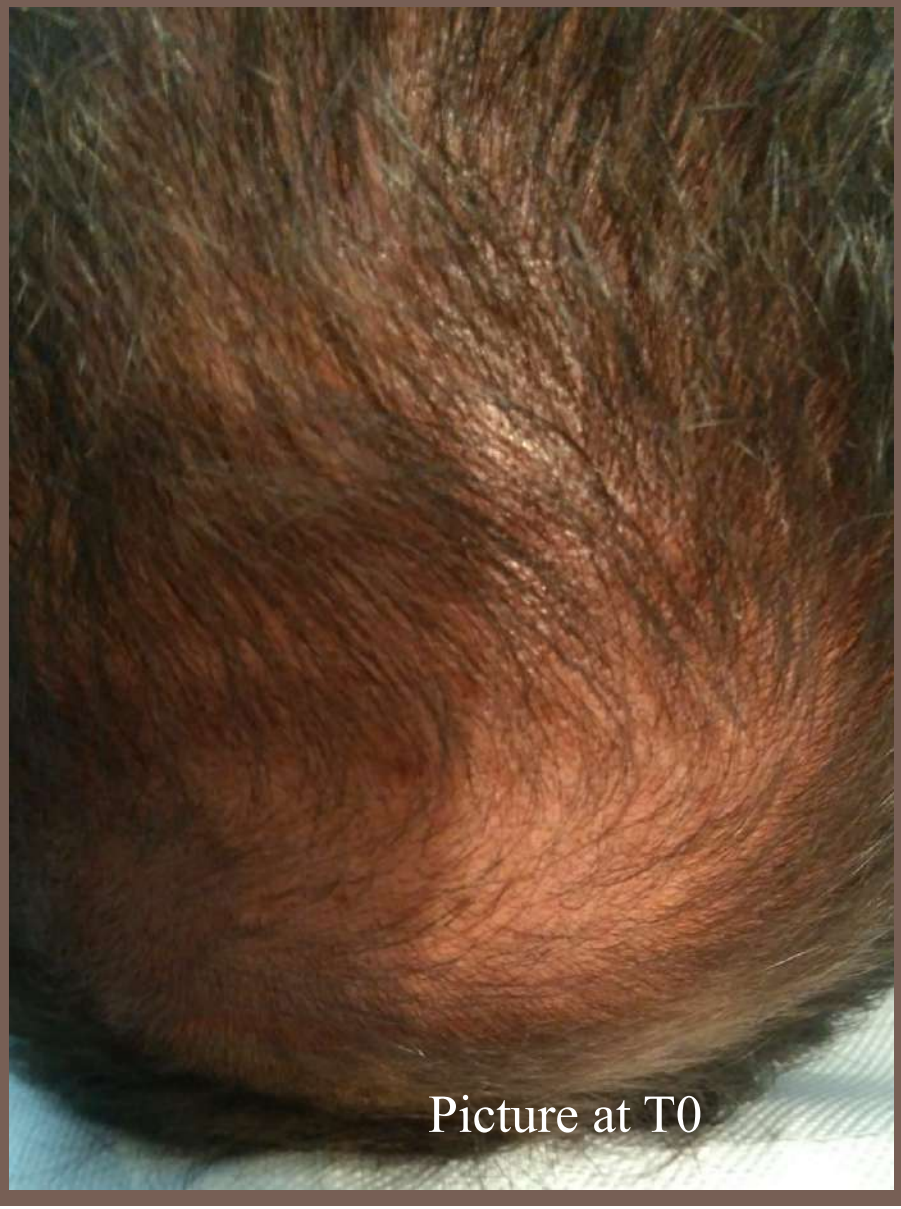
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

PATIENT 48 YEARS
ANDROGENETIC ALOPECIA
TREATED WITH CRIOPASS THERAPY
1 THERAPY PER WEEK FOR 10 WEEKS

epigenetic regulation in hair regeneration with stem cell growth and differentiation factors from the zebrafish embryos



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

THERAPEUTIC PROTOCOL
1 THERAPY PER WEEK FOR 10 WEEKS

Sodium Hyaluronate
Polypeptides from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

PATIENT 60 YEARS OLD FEMALE
ANDROGENETIC ALOPECIA
TREATED WITH CRIOPASS THERAPY
1 THERAPY PER WEEK FOR 10 WEEKS

epigenetic regulation in hair regeneration with stem cell growth and differentiation factors from the Zebrafish embryos

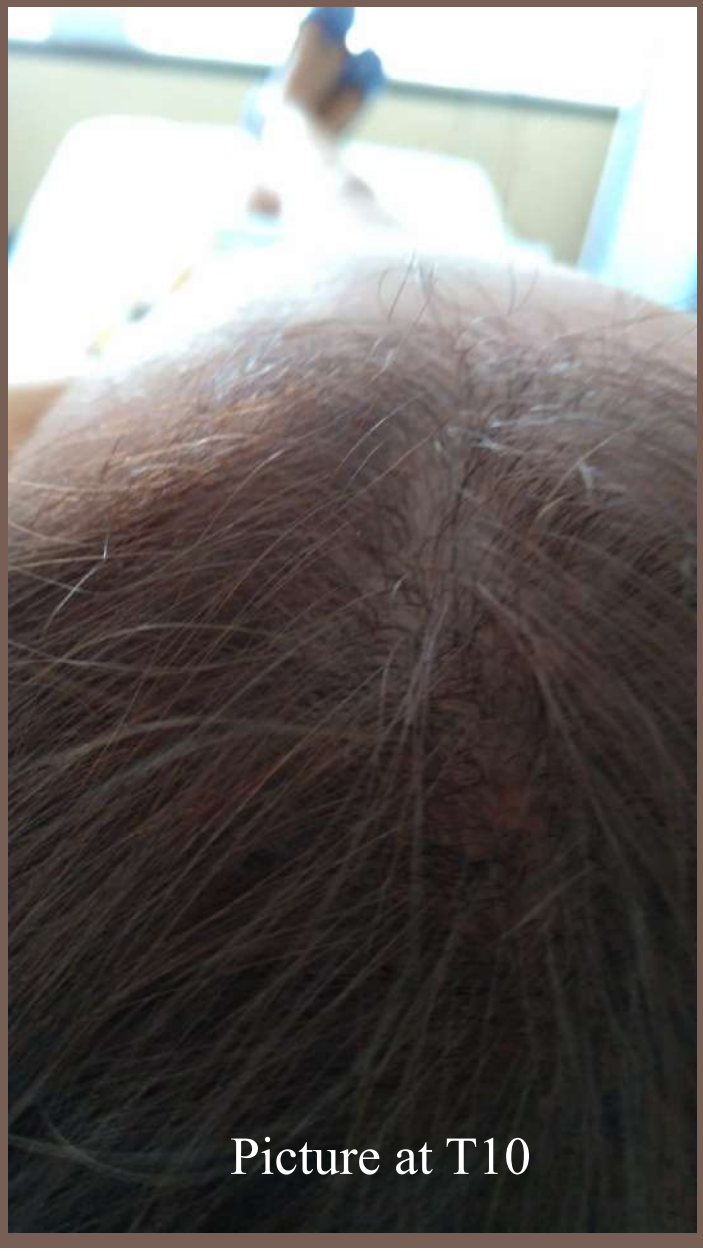
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

REGENERATION CAPILLARY

THERAPEUTIC PROTOCOL
1 THERAPY PER WEEK FOR 10 WEEKS

Sodium Hyaluronate
Polypeptides from Zebrafish embryos



- *Reprogramming of ulcerated tissues*
- *Keloid reprogramming*
- *Reprogramming scars*

- *Breast ptosis*
- *Pefs and localized adiposity*

DIABETIC ULCERS

PATIENT 60 YEARS
DIABETIC ULCER ALLUCE RIGHT
TREATED WITH MOLECULAR LASER
DURATION 90 DAYS
1 THERAPY EVERY 4 DAYS

epigenetic regulation in skin regeneration and microcirculation with growth and differentiation factors of stem cells from the Zebrafish embryos

Picture at T0

DIABETIC ULCERS

THERAPEUTIC PROTOCOL
By means of Criopass Therapy
DURATION 3 MONTHS
1 THERAPY EVERY 4 DAYS

VERAPAMIL HYDROCHLORIDE
differentiation factors extracted from Zebrafish embryos

Picture at T6

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DIABETIC ULCERS

Picture at T12

Picture at T24

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

PATIENT 48 YEARS
BED FOR 15 YEARS FOLLOWING SPINAL TRAUMA WITH SERIOUS MEDULLARY INJURY
TREATED WITH MOLECULAR LASER
DURATION 90 DAYS
1 THERAPY EVERY 4 DAYS

epigenetic regulation in skin regeneration and microcirculation with growth and differentiation factors of stem cells from the Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

THERAPEUTIC PROTOCOL
By means of Criopass Therapy
DURATION 3 months
1 THERAPY EVERY 4 DAYS

Sodium HYALURONATE
GLUCOSAMINE SULFATE
CHONDROITIN SULFATE
differentiation factors extracted from Zebrafish ebryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

PATIENT 81 YEARS
DECUBITUS ULCER TREATED WITH TRADITIONAL THERAPIES FOR 12 MONTHS WITHOUT SUCCESS

TREATED WITH MOLECULA LASER EVERY 7 DAYS FOR 2 MONTHS

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

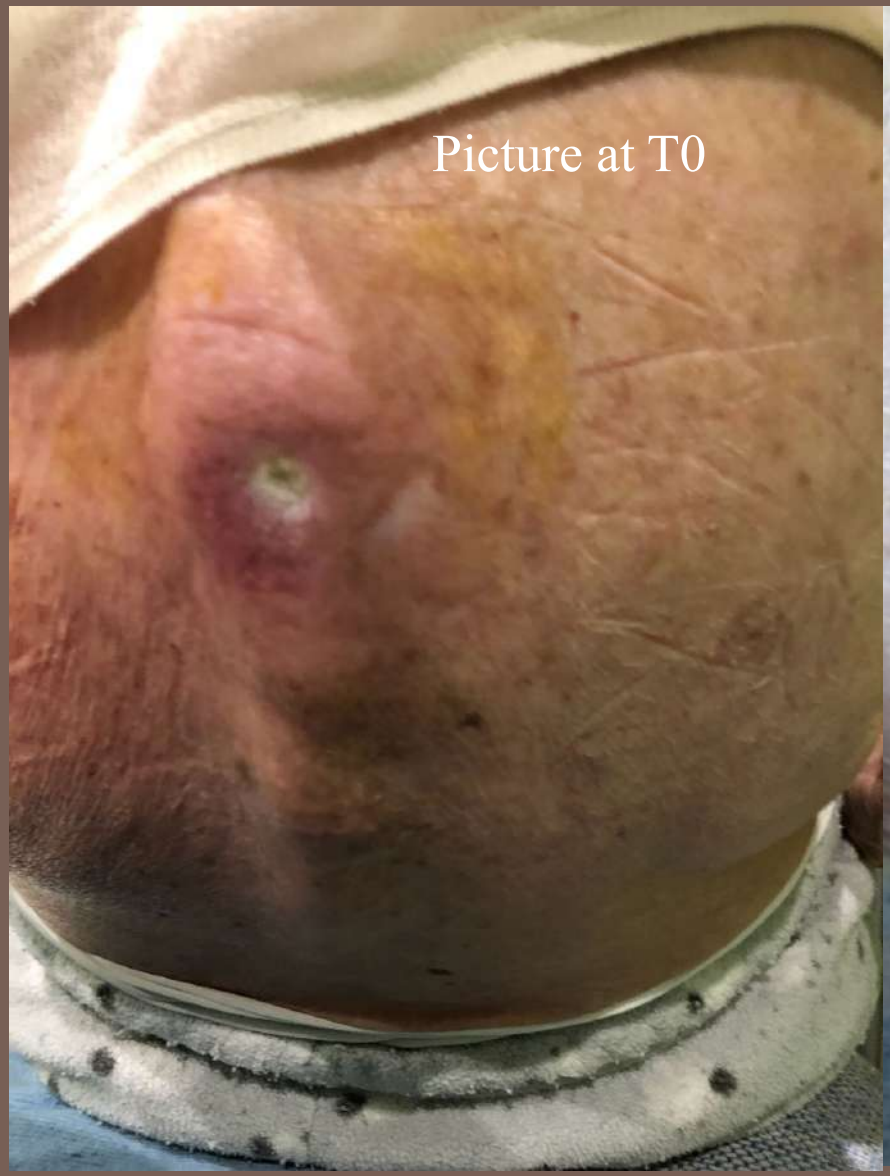
DECUBITUS ULCERS

THERAPEUTIC PROTOCOL
DURATION 60 DAYS
1 THERAPY PER WEEK

CEFITRIAXONE
POLIDEXOXYRIBONUCLEOTIDE
Sodium HYALURONATE
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

PATIENT 40 YEARS
DECUBITUS ULCER TREATED WITH TRADITIONAL THERAPIES FOR 12 MONTHS WITHOUT SUCCESS

TREATED WITH MOLECULAR LASER EVERY 7 DAYS FOR 2 MONTHS

MD Sophia Zafiropoulou

DECUBITUS ULCERS

THERAPEUTIC PROTOCOL
THERAPY DURATION 60 DAYS
1 THERAPY PER WEEK

POLIDEXOXYRIBONUCLEOTIDE
SODIUM HYALURONATE
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEPITHELISATION OF THE SKIN

PATIENT 77 YEARS
SKIN DEEPITHELISATION
IN SCOAGULATED
CARDIOPATHIC PATIENT
FOLLOWING ACCIDENTAL
FALL

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEPITHELISATION OF THE SKIN

THERAPEUTIC PROTOCOL
THERAPY DURATION 60 DAYS
1 THERAPY PER WEEK

SODIUM HYALURONATE
CEFITRIAXONE
POLIDEXOXYRIBONUCLEOTIDE
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEPITHELISATION OF THE SKIN

Picture at T7 SX

Picture at T8 DX

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

PATIENT 89 YEARS
HEEL DECUBITUS ULCER
TREATED WITH TRADITIONAL THERAPIES FOR 12 MONTHS WITHOUT SUCCESS
WITH IMPORTANT NECROSIS OF SOFT TISSUE AND BONE

TREATED WITH MOLECULAR LASER EVERY 5 DAYS FOR 4 MONTHS

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DECUBITUS ULCERS

THERAPEUTIC PROTOCOL
DURATION 120 DAYS
1 THERAPY EVERY 5 DAYS

VERAPAMIL HYDROCHLORIDE
CEFITRIAXONE
POLIDEXOXYRIBONUCLEOTIDE
SODIUM HYALURONATE
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

CHELOIDATE LESION TREATMENT
SEVERE AND EXTENDED

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

PATIENT 36 YEARS
BURN AT 28 YEARS OLD WITH FREE FLAME

SUBJECT TO VARIOUS RECONSTRUCTIVE INTERVENTIONS WITH SKIN GRANTS

HAS DEVELOPED SEVERE CHELOIDAL INJURY AND EXTENDED ON THE FACE AND NECK

IN THE FOLLOWING 8 YEARS IT WAS SUBJECTED TO THE MOST VARIOUS TECHNIQUES TO REDUCE KELOIDS, WITHOUT APPRECIATIVE RESULTS

CHELOIDS

IT HAS BEEN DECIDED TO TREAT THE PATIENT USING MOLECULAR LASER, WITH DIFFERENT DRUG ABLE TO CONCENTRATE IMPORTANT QUANTITIES OF PHARMACOLOGICALLY ACTIVE SUBSTANCES AT DESIRED DEPTH.

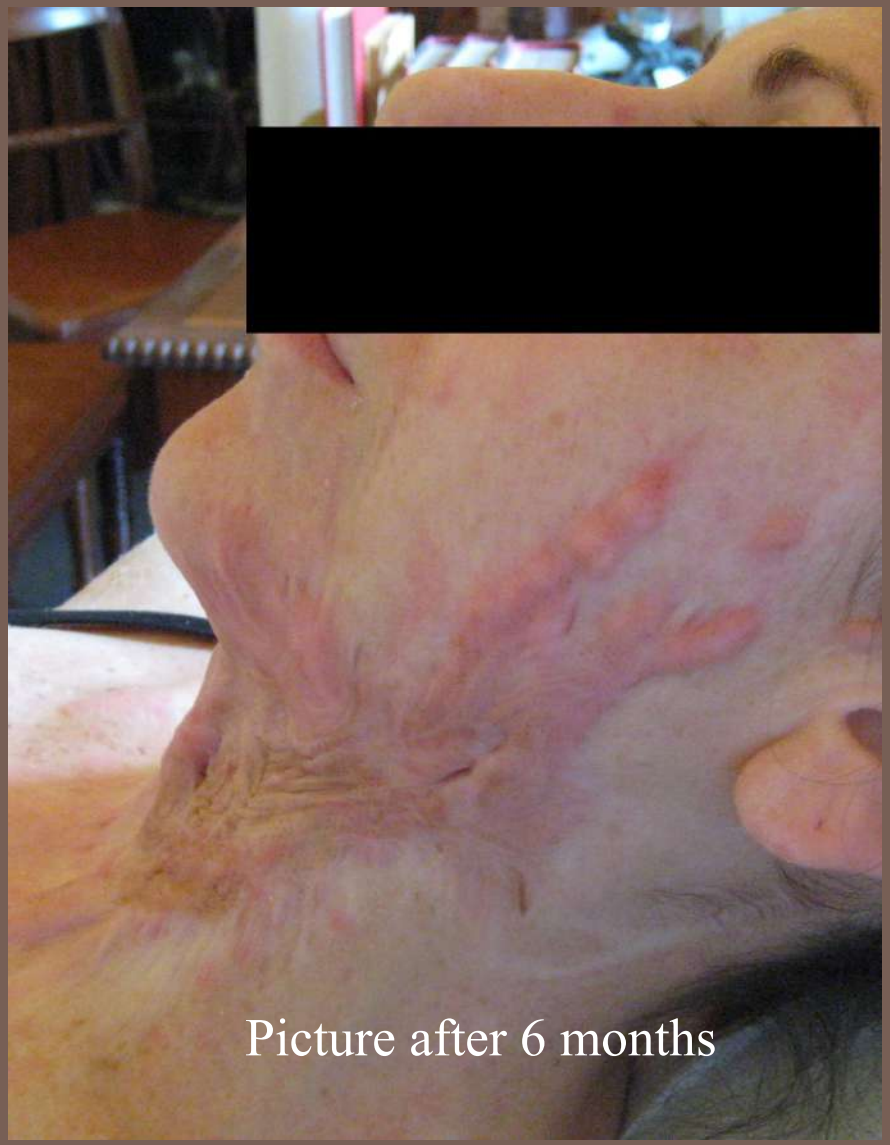
CHELOIDS

THERAPEUTIC PROTOCOL
First cycle of therapy: 1 MONTH
1st week
Methylprednisolone Hemisuccinate
Glucosamine Sulphate
2nd week
Methylprednisolone Hemisuccinate
Sodium Hyaluronate
3rd week
Methylprednisolone Hemisuccinate
Glucosamine Sulphate
4th week
Methylprednisolone Hemisuccinate
Sodium Hyaluronate

CHELOIDS

THERAPEUTIC PROTOCOL
Second cycle of therapy: 5 MONTHS
1 APPLICATION every 15 days
(total 10 applications)

Odd session (1-3-5-7-9)
Methylprednisolone Hemisuccinate
Glucosamine Sulphate
Even sitting (2-4-6-8-10)
Methylprednisolone Hemisuccinate
Sodium Hyaluronate



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

THERAPEUTIC PROTOCOL
Third cycle of therapy: 6 MONTHS (total 6 applications)

1 month therapy
Methylprednisolone Hemisuccinate
Sodium Hyaluronate
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

THERAPEUTIC PROTOCOL

Total therapy: 12 MONTHS
(total 20 applications)

First cycle - 1 month
1st week Urbason + Dona
Sodium Methylprednisolone Hemisuccinate 40mg
Glucosamine Sulphate 800 mg
2nd week Urbason + Jaluronico
Sodium Methylprednisolone Hemisuccinate 40mg
Sodium Hyaluronate 100 mg
III week Urbason + Dona
Sodium Methylprednisolone Hemisuccinate 40mg
Glucosamine Sulphate 800 mg
4th week Urbason + Jaluronico
Sodium Methylprednisolone Hemisuccinate 40mg
Sodium Hyaluronate 100 mg
Second Cycle - 5 months
Odd seat Urbason + Dona
Sodium Methylprednisolone Hemisuccinate 40mg
Glucosamine Sulphate 800 mg
Sitting equal to Urbason + Hyaluronic acid
Sodium Methylprednisolone Hemisuccinate 40mg
Sodium Hyaluronate 100 mg
Third cycle -6 months
1st cryo-applicator Urbason + Hyaluronic acid
Sodium Methylprednisolone Hemisuccinate 40mg
Sodium Hyaluronate 100 mg
II ° Zebrafish cryapplicator
differentiation factors extracted from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

Picture after T12 months

Picture at T0

CHELOIDS

PATIENT 40 YEARS
SCAR AND CHELOID CONSEQUENT TO FACIAL LIFTING INTERVENTION

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

THERAPEUTIC PROTOCOL
Therapy cycle: 1 MONTH
1st week
Methylprednisolone Hemisuccinate
Glucosamine Sulphate
2nd week
Methylprednisolone Hemisuccinate
Sodium Hyaluronate
3rd week
differentiation factors extracted from Zebrafish embryos
4th week
differentiation factors extracted from Zebrafish embryos

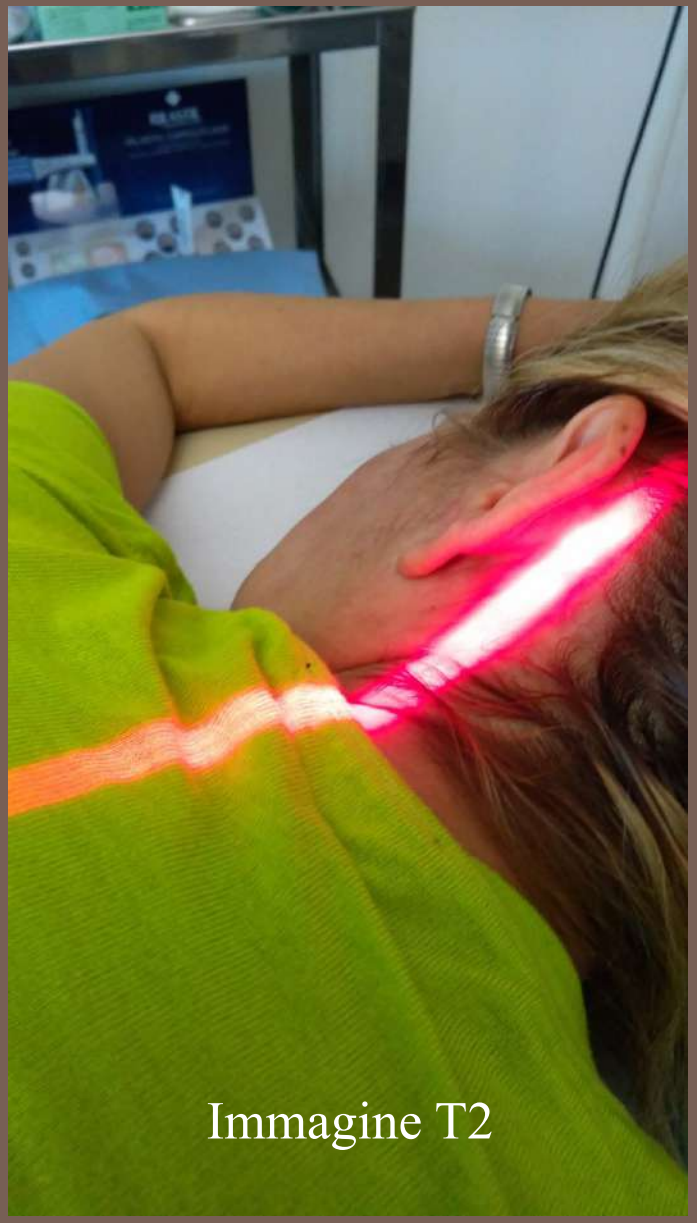


Immagine T2

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

CHELOIDS

After a month of therapy

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

PATIENT 60 YEARS
DEEP CUT FROM GLASS SHEET
REBUILDING INTERVENTION TENDONS TOE, INDEX AND MIDDLE FINGER

Picture few hours before the surgery

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

PATIENT TREATED WITH CRIOPASS THERAPY AFTER 20 DAYS OF SURGERY

In addition to intervening in the aesthetic improvement of the scar, in this case the regenerative factors extracted from Zebrafish embryos were used to accelerate the regeneration processes of the injured tendons.

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

THERAPEUTIC PROTOCOL
First cycle of therapy: 2 WEEKS
1 therapy every 3 days
Methylprednisolone Hemisuccinate
Sodium Hyaluronate
differentiation factors extracted from Zebrafish embryos

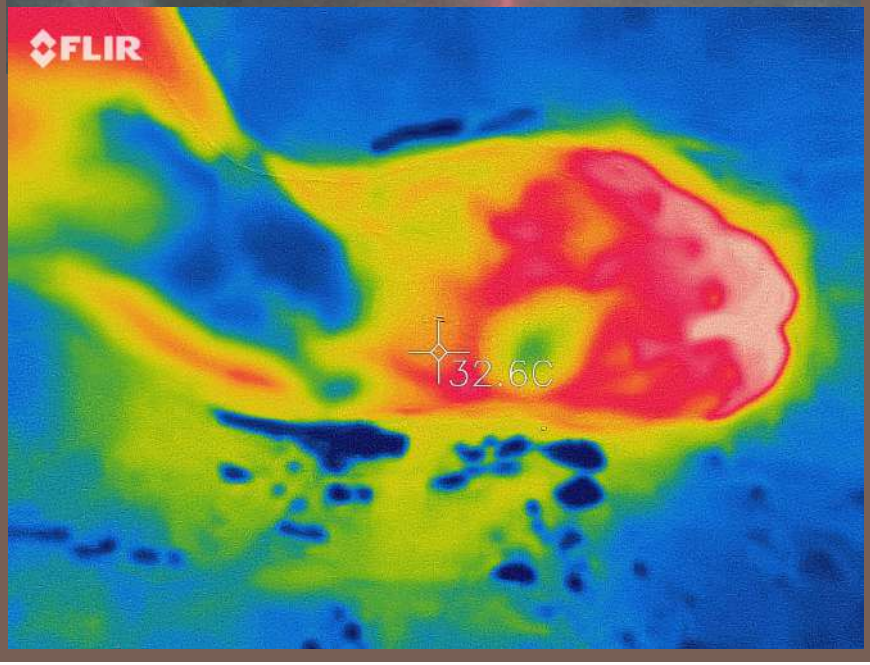
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

Second cycle of therapy: 8 WEEKS
1 therapy every 7 days
differentiation factors extracted from the Zebrafish embryos

THERMOGRAPHIC IMAGE DURING THERAPY HIGHLIGHTS THE DISTRIBUTION OF ACTIVE INGREDIENTS IN THE TISSUES



MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

AFTER 2 WEEKS NET IMPROVEMENT OF SCAR

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

AFTER 10 WEEKS, TOTAL RECOVERY OF THE MOTOR FUNCTIONALITY OF THE HALLUCE, INDEX AND AVERAGE

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

PATIENT 87 YEARS
SCAR FROM ACCIDENTAL CUT FROM FALL SUTURE WITH STRIP PATCHES
TREATED WITH CRIOPASS THERAPY AFTER 20 DAYS OF TRAUMA

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

DEEP SCARS

THERAPEUTIC PROTOCOL
cycle therapy: 2 WEEKS
1 therapy every 3 days
Methylprednisolone Hemisuccinate
Sodium Hyaluronate
differentiation factors extracted from Zebrafish embryos


Immagine T2 settimane

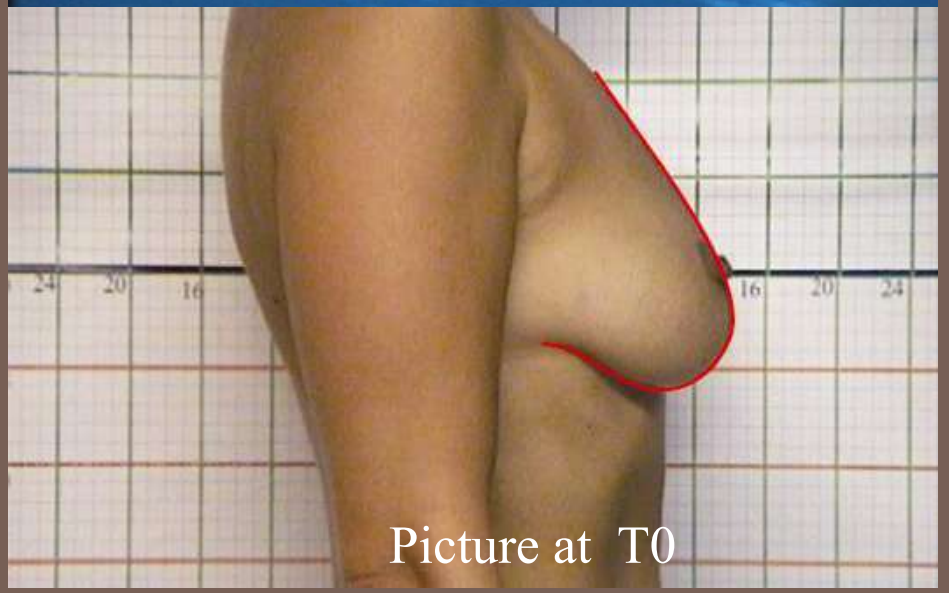
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

BREAST PTOSIS

PATIENT 46 YEARS

Breast ptosis, firming with essential oils and cell reprogramming with polypeptides from Zebrafish embryos

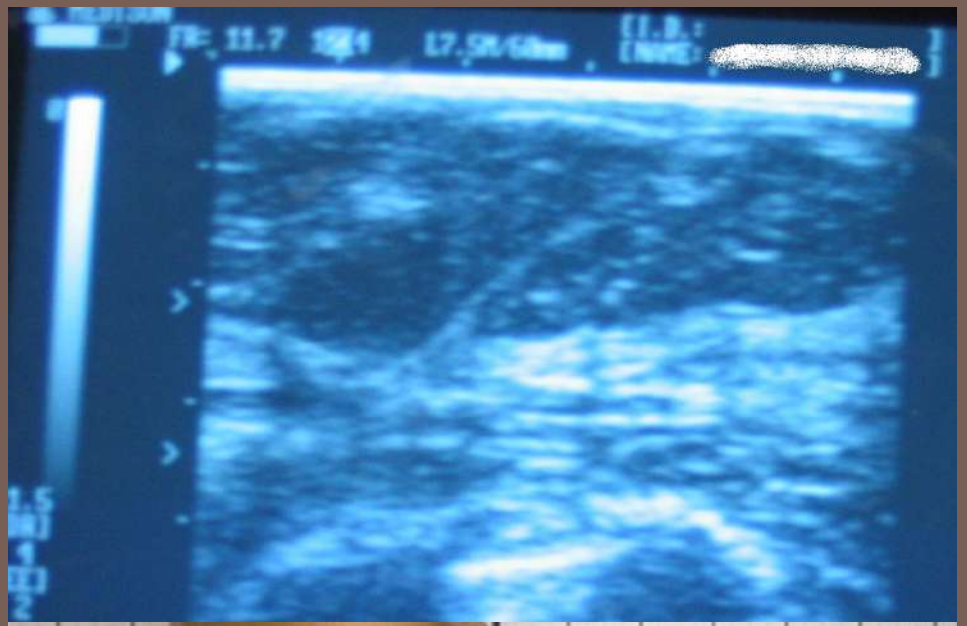


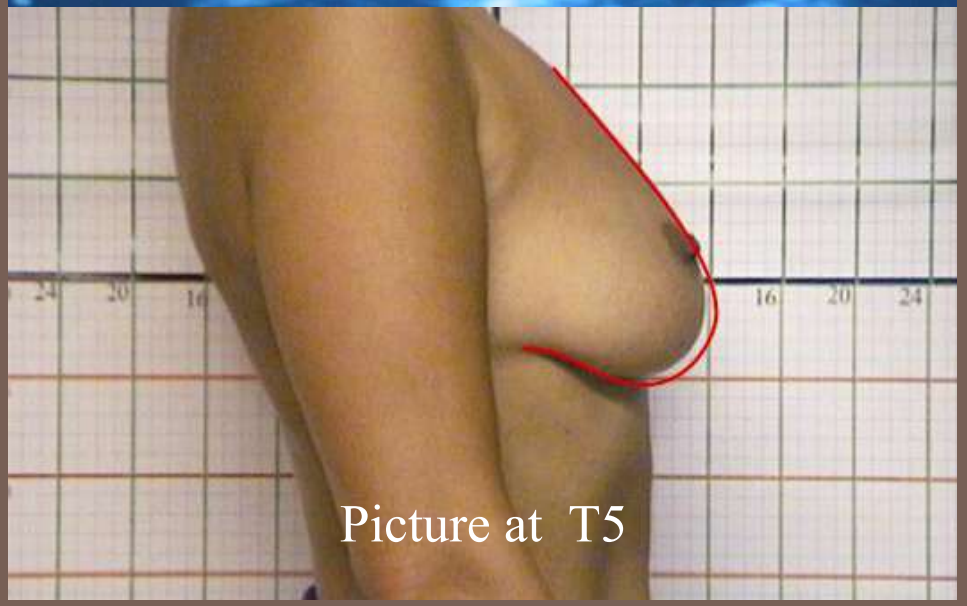
MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

BREAST PTOSIS

THERAPEUTIC PROTOCOL
cycle therapy: 5 WEEKS
1 therapy per week
Piper nigrum
Origanum majorana
Citrus Paradisi
differentiation factors extracted from Zebrafish embryos





MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

PEFS NECK

PATIENT 46 YEARS

Edematous Fibrous Sclerotic Panniculopathy neck, treated with phosphatidylcholine and cell reprogramming with polypeptides from Zebrafish embryos

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

PEFS NECK

THERAPEUTIC PROTOCOL
cycle therapy: 5 WEEKS
1 therapy per week
PHOSPHATIDYLCHOLINE
URSODEOXYCHOLIC ACID
differentiation factors extracted from Zebrafish embryos

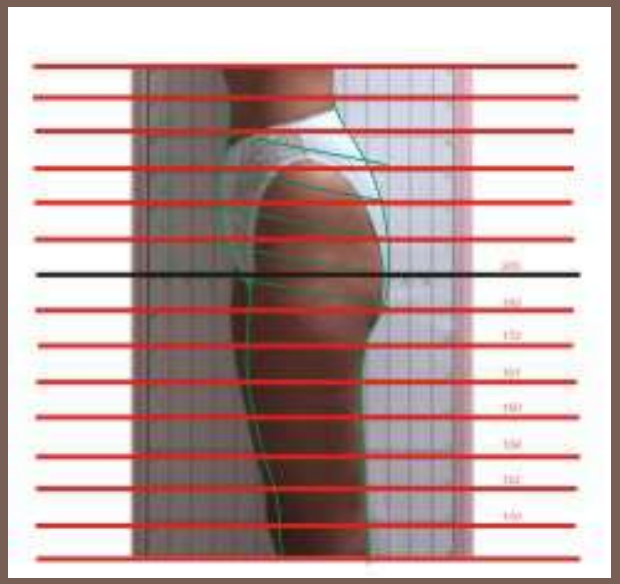
MD Sophia Zafiropoulou

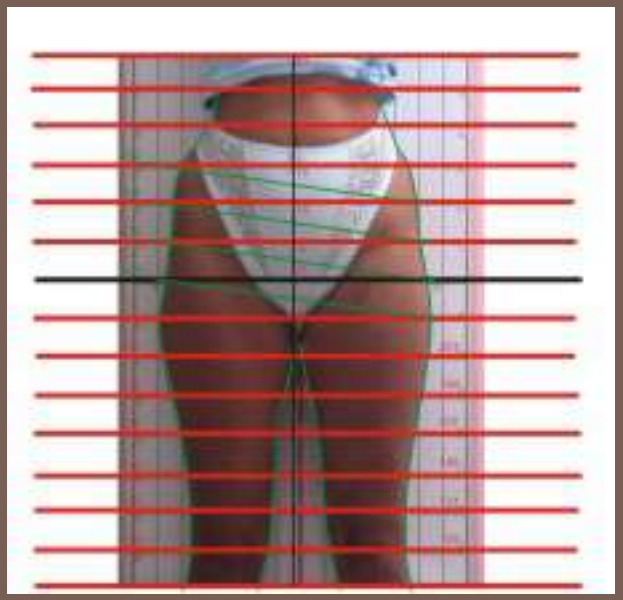
Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

PEFS LEGS

PATIENT 48 YEARS

Edematous Fibrous Sclerotic Panniculopathy of the legs, treated with phosphatidylcholine and cell differentiation factors taken from Zebrafish embryos





Immagini T0

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine

PEFS LEGS

THERAPEUTIC PROTOCOL cycle therapy: 5 WEEKS 1 therapy per week
PHOSPHATIDYLCHOLINE, URSODEXOXYCOLIC ACID, differentiation factors extracted from Zebrafish embryos

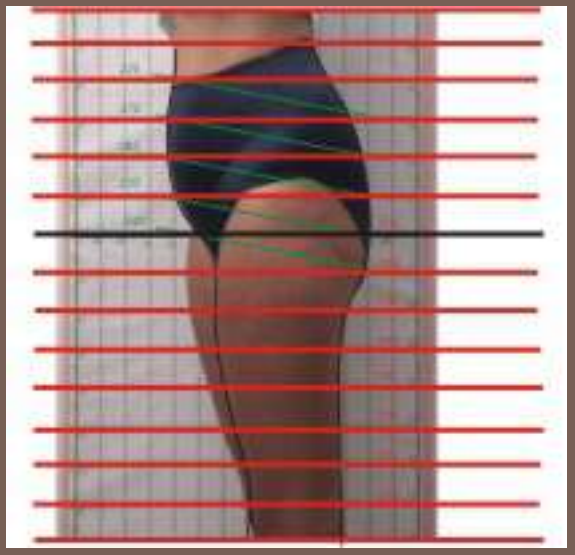


Immagine T5

MD Sophia Zafiropoulou

Cellular Reprogramming applied to Aesthetic Regenerative and Antiaging Medicine