Bienvenidas
& Bienvenidos

FORO
Académico
Acosemillas
Resiliencia, tradición e innovación

55 años
(1970-2025)

Invita: Acosemillas
Asociación Colombiana de Semillas y Biotecnología

www.acosemillas.org

FORO Académico Acosemillas

Resiliencia, tradición e innovación

55 años

11 de junio 2025

8:30 a. m. a 6:00 p. m.

Hotel Tequendama, Salón Esmeralda
Cra. 10 N.26-21, Bogotá

Agenda

Mañana

8:30 a.m. a 9:00 a.m.	Inscripción
9:00 a.m. a 9:15 a.m.	55 Años de historia de Acosemillas: Resiliencia, tradicion e innovacion Leonardo Ariza Ramirez - Gerente General - Asociación Colombiana de Semillas y Biotecnología -Acosemillas
9:15 a.m. a 9:30 a.m.	Palabras Jorge Enrique Bedoya Presidente de la Sociedad de Agricultores de Colombia, SAC
9.30 a.m. a 10:15 a.m.	La innovacion de la biotecnologia aplicada en la salud humana Dr. Andres Felipe Torres Obando - Médico Cirujano Especialista en Medicina de Regeneración Celular- Maestría en Terapia Celular y Organobioterapia (Alemania) - Instituto Nacional de Cancerología - Cell Regeneration, Medical Organization
10:15 a.m. a 11:00 a.m.	Transformando el campo con el poder de la información Luz Dary Yepes Rubiano, Luis Enrique Jaramillo Son,William Fabian Acevedo Silva - Mesa de Estadísticas Agropecuarias - "Unidad de Planificación Rural Agropecuaria - UPRA, DANE,Ministerio de Agricultura y Desarrollo Rural
11:00 a.m. a 12:30 p.m.	Aporte de la investigación, la academia, la regulación y la extensión rural al sector semillas Panel: Carolina González, Julián Mora Oberlaender, Alberto Rosero,Carmen Julio Duarte Pérez Panel: Agrosavia, Universidad Nacional, ICA y Fenalce
12:30 p.m. a 2:30 p.m.	Almuerzo

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Resiliencia, tradición e innovación

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La innovación de la biotecnología aplicada en la salud humana

Dr. Felipe Torres.

Médico de Regeneración Celular

Cell Regeneration Medical Organization

La innovación de la biotecnología aplicada en la salud humana

Dr. Felipe Torres.
Médico cirujano especialista en Medicina de regeneración celular con maestría en terapia celular y organobioterapia (Alemania), especialista en manejo neurológico del Dolor (España), especialista en terapia microbiológica (Alemania). Subespecialista en Biocirugia por ondas de choque y factores de crecimiento.

Es nombrado conferencista internacional de Laboratorios Guna de Italia y Director Científico de Guna en Colombia y en Perú y como miembro del Comité Científico de la Sociedad Internacional de Medicina de Regulación Fisiológica.

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Cell Regeneration
Medical Organization

LA INNOVACION DE LA BIOTECNOLOGIA APLICADA EN LA SALUD HUMANA

FORO ACADEMICO ACOSEMILLAS 55 AÑOS
MIERCOLES 11 DE JUNIIO DEL 2025

Dr. Felipe Torres MD

Director Medico CRM – Latinoamericano Director GUNA
Director Cientifico Periso Academy – Lugano, Suiza
Universidad del Rosario – Universidad El Bosque
UNAM Mexico, Universidad de Catanzaro Italia

PERISO ACADEMY
CONNECTING SCIENCE CONNECTING SCIENCE CONNECTING SCIENCE

CELL REGENERATION
MEDICAL ORGANIZATION

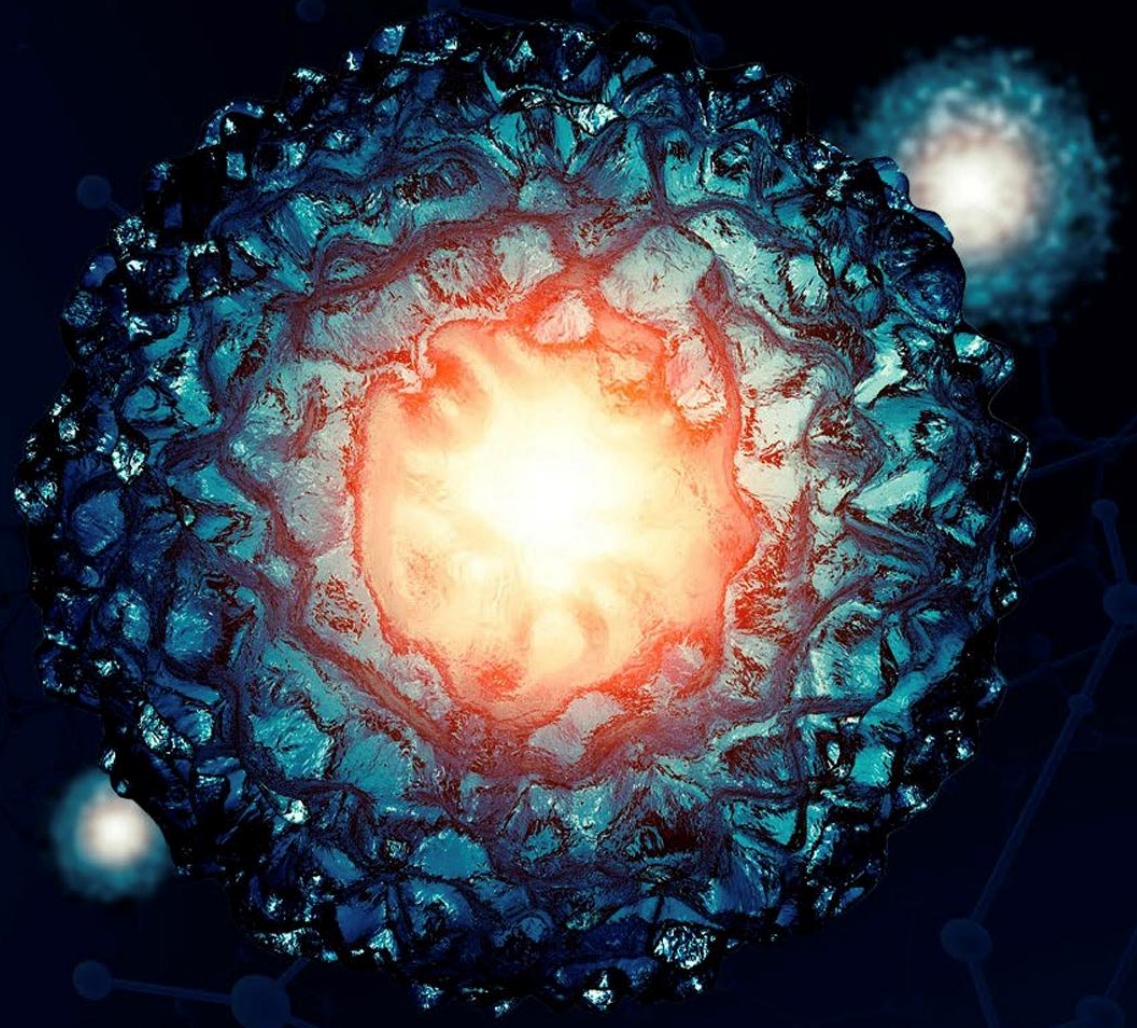
Investigation
Institute

CELL REGENERATION
MEDICAL ORGANIZATION

Medical
Rhapsody

PERISO ACADEMY

CONNECTING SCIENCE CONNECTING SCIENCE CONNECTING SCIENCE



Cell Regeneration

Medical Organization

ISDT

International Society of Diamagnetic Therapy

International Academy of

prm

physiological regulating medicine

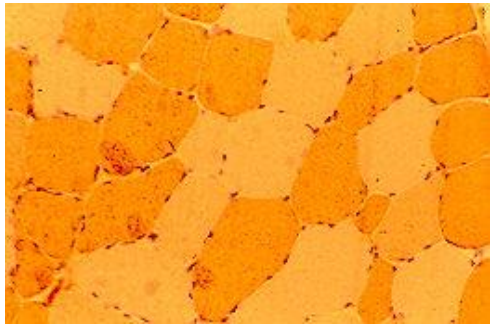
CELL REGENERATION
MEDICAL ORGANIZATION

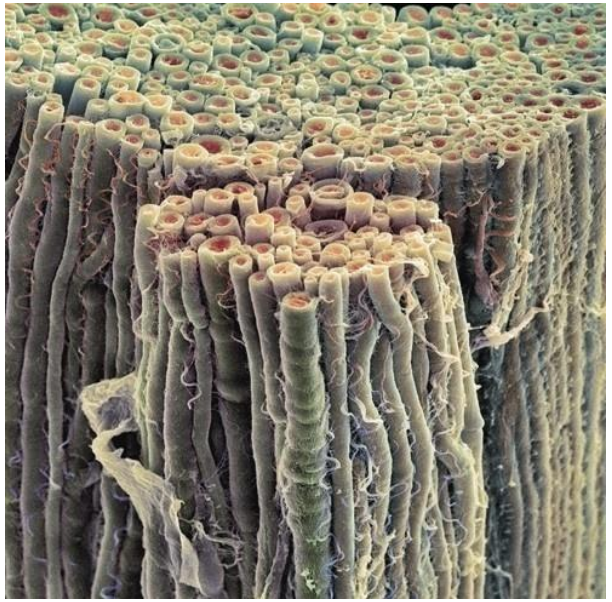
Guna Research Centre
c/o C.N.R. di Bologna

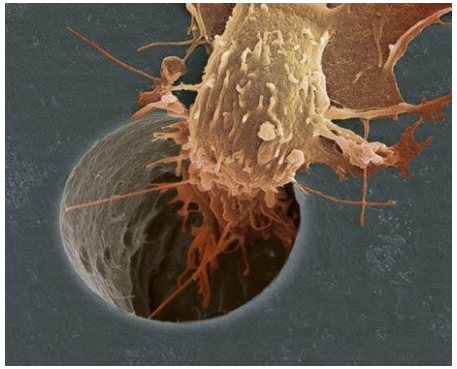
A.T.T.RE.

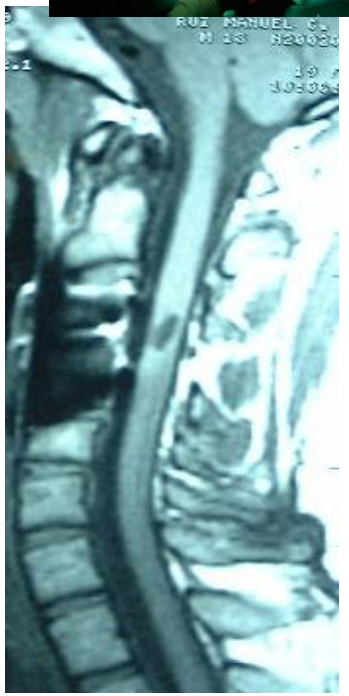
(ADVANCED THERAPIES and TISSUE REGENERATION)

GUNA terapie d'avanguardia © Dipartimento Scientifico Guna S.p.a.









CELL REGENERATION
MEDICAL ORGANIZATION

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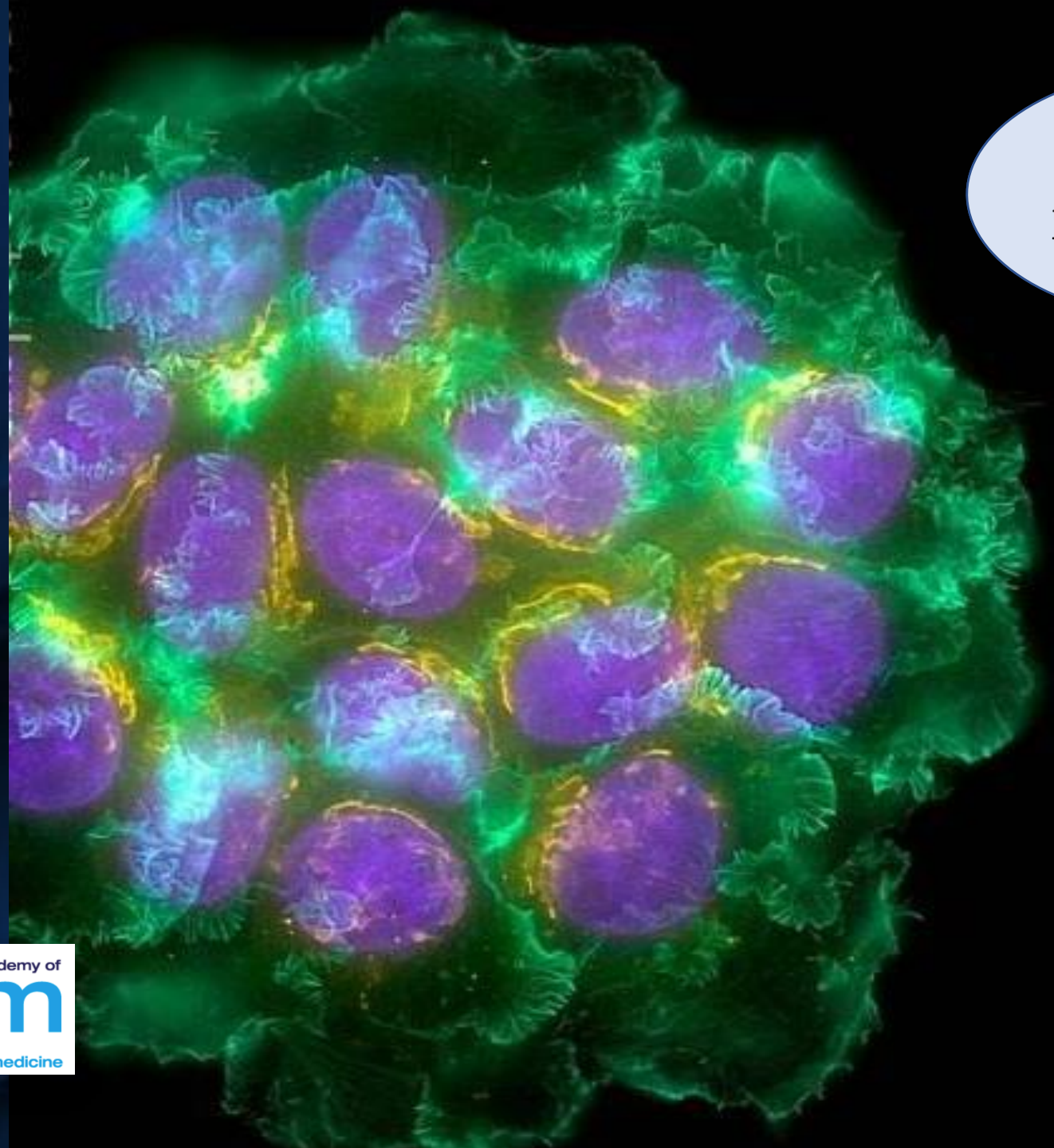
CONNECTING SCIENCE CONNECTING SCIENCE CONNECTING SCIENCE



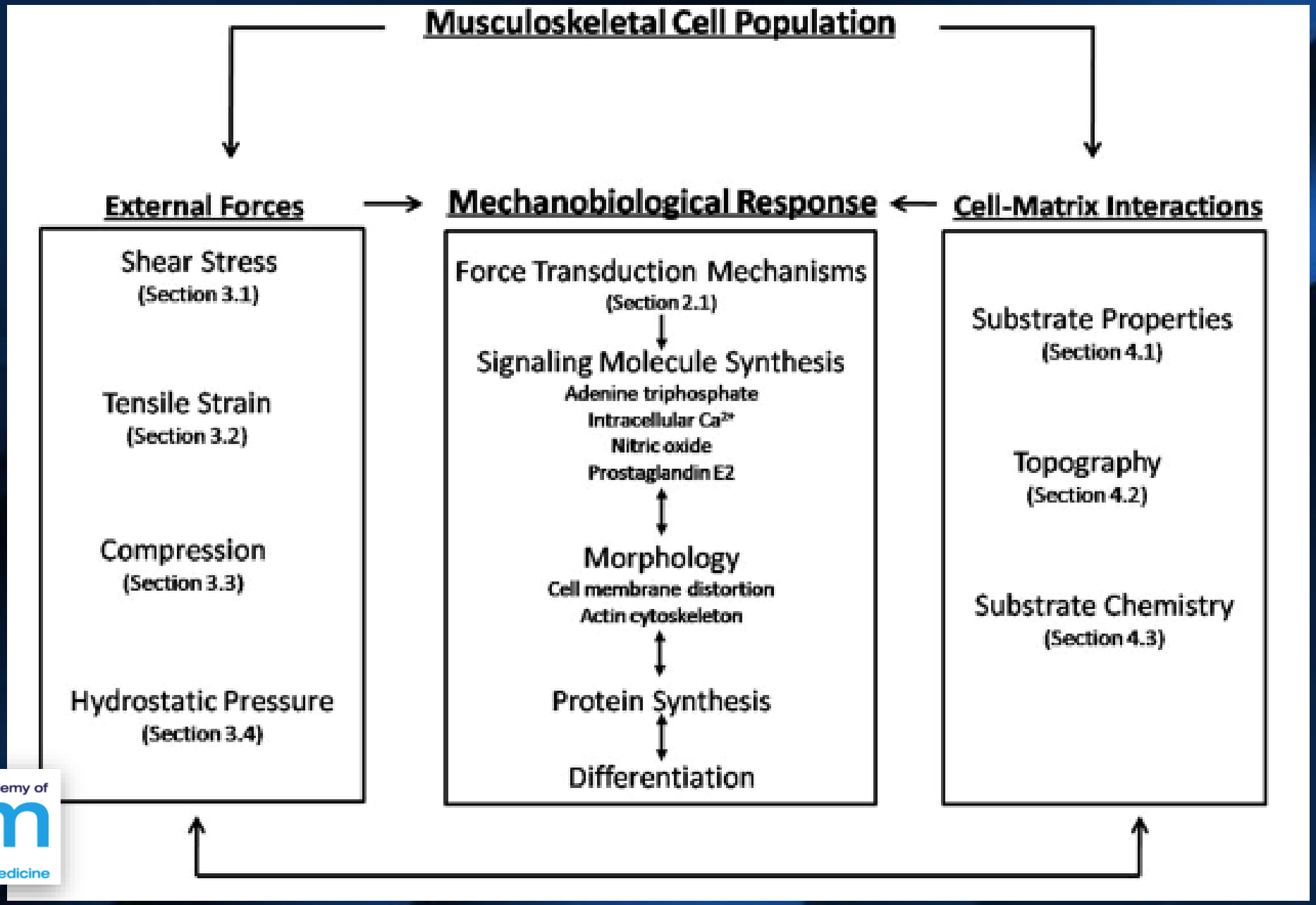
Cargas Mecanicas

International Academy of prm physiological regulating medicine

PERISO ACADEMY

¿Quiénes somos?

Somos una organización reconocida internacionalmente para el tratamiento de enfermedades huérfanas y raras, autoinmunes, degenerativas, postraumáticas y patologías de difícil manejo, presentando opciones de tratamiento basadas en la regeneración celular, con base en la combinación de diferentes terapias, con tratamientos diferenciados y personalizados a partir de exámenes especializados integrando diferentes ramas médicas y tecnologías terapéuticas.



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PERISO ACADEMY

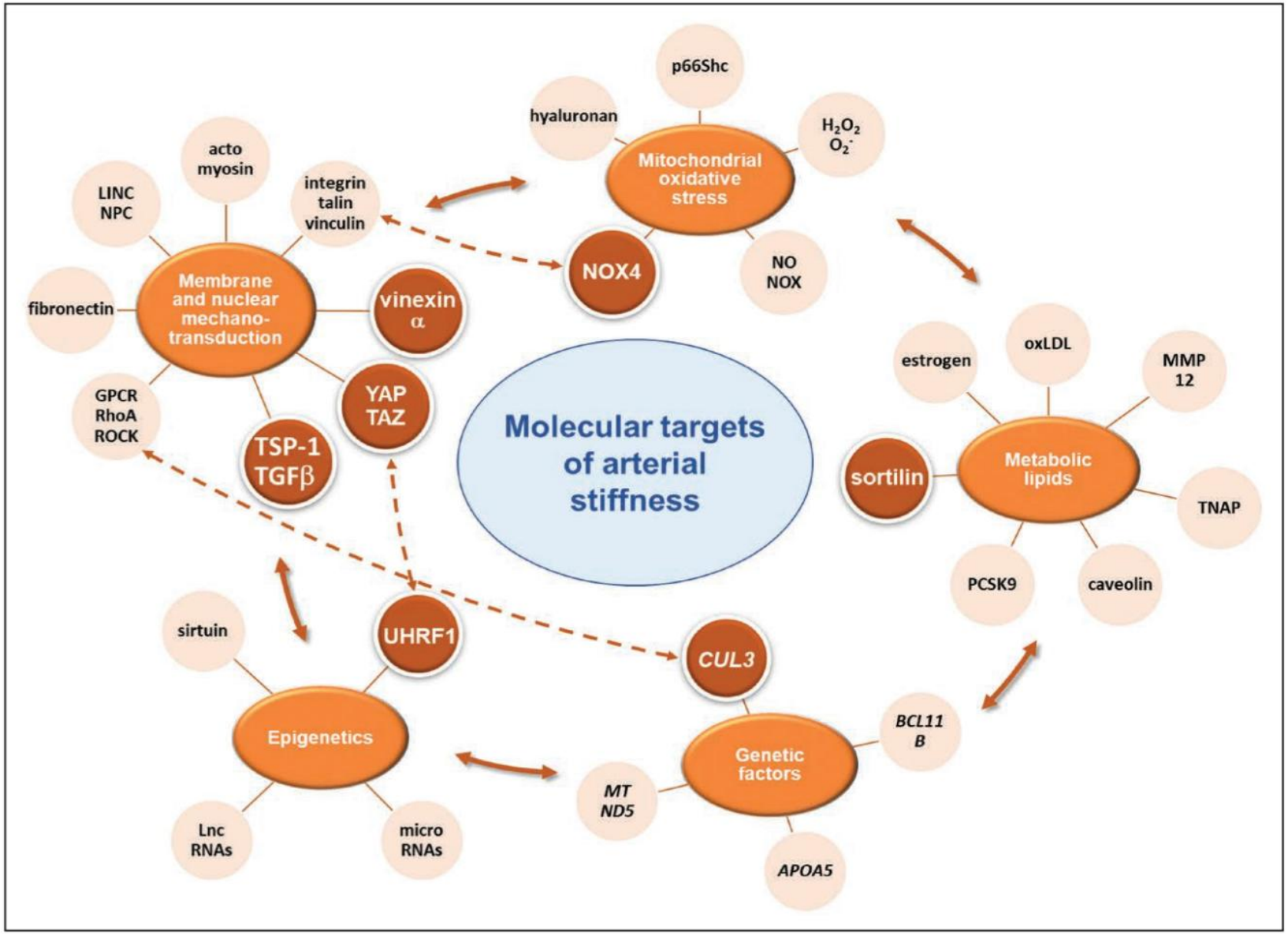

Figure 2. Integrative view of overlapping determinants of arterial stiffness.
The orange nodes are well-established key pathways, whereas the molecules/genes highlighted in brown are emerging modulators of arterial stiffness. Dashed arrows indicate links between new and well-known players. LINC indicates linker of nucleoskeleton and cytoskeleton; MMP, matrix metalloproteinase; NPC, nuclear pore complex; oxLDL, oxidized LDL; PCSK9, proprotein convertase subtilisin/kexin type 9; TAZ, transcriptional coactivator with a PDZ-binding motif; TGFβ, transforming growth factor β; TNAP, tissue nonspecific alkaline phosphatase; and YAP, yes-associated protein.

ISDT International Society of Diamagnetic Therapy
UMG Dubium sapientiae initium

Discovery Medicine. 2016 nov.; 22 (122) : 257-273.

The dielectrophoretic disassociation of chloride ions and the influence on diamagnetic anisotropy in cell membranes.

Chloride channels represent ubiquitously expressed proteins that regulate fundamental cellular processes including membrane potential, maintenance of intracellular pH, and regulation of cell volume. However, mechanisms to modulate this large family of ion channels have remained elusive to date. This large chloride channel family does not appear to operate with selectivity similar to the sodium and potassium channels. These unique channels appear to be bi-directional cotransporters of two or more different molecules or ions across a bilayer phospholipid membrane. Here we show how 3 amperes of direct current from a device that generates an electromagnetic field in a 3 mM hypotonic saline solution leads to a dielectrophoretic disassociation of the chloride ion from its chloro-metabolites transforming it into a polymorphic diamagnetically disassociated bio-chloride (bCl-). This field treated aqueous solution appears to continue to induce a magnetic moment change in solution for some hours when no longer under the influence of the direct current; for when this field influenced solution is used to reconstitute growth media of human breast carcinoma (MDA-MB-231) and human breast epithelial (MCF-10A) cells in vitro, significant changes in chloride ion channel expression, membrane potential, cell volume, and a massive transcriptional reprogramming of 2,468 genes expressions by Human Genome U133 Plus 2.0 Gene Chip Array (Affymetrix) analyses occur. We will highlight how the strong changes in chloride ion channel expression and cell physiology could be intricately linked to enhanced diamagnetic anisotropy in cell membranes that occur under the influence of this disassociated polymorphic bCl-.

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PERISO ACADEMY

BIOLOGICAL EFFECTS OF EMF

Progress in Biophysics and Molecular Biology 141 (2019) 25–36

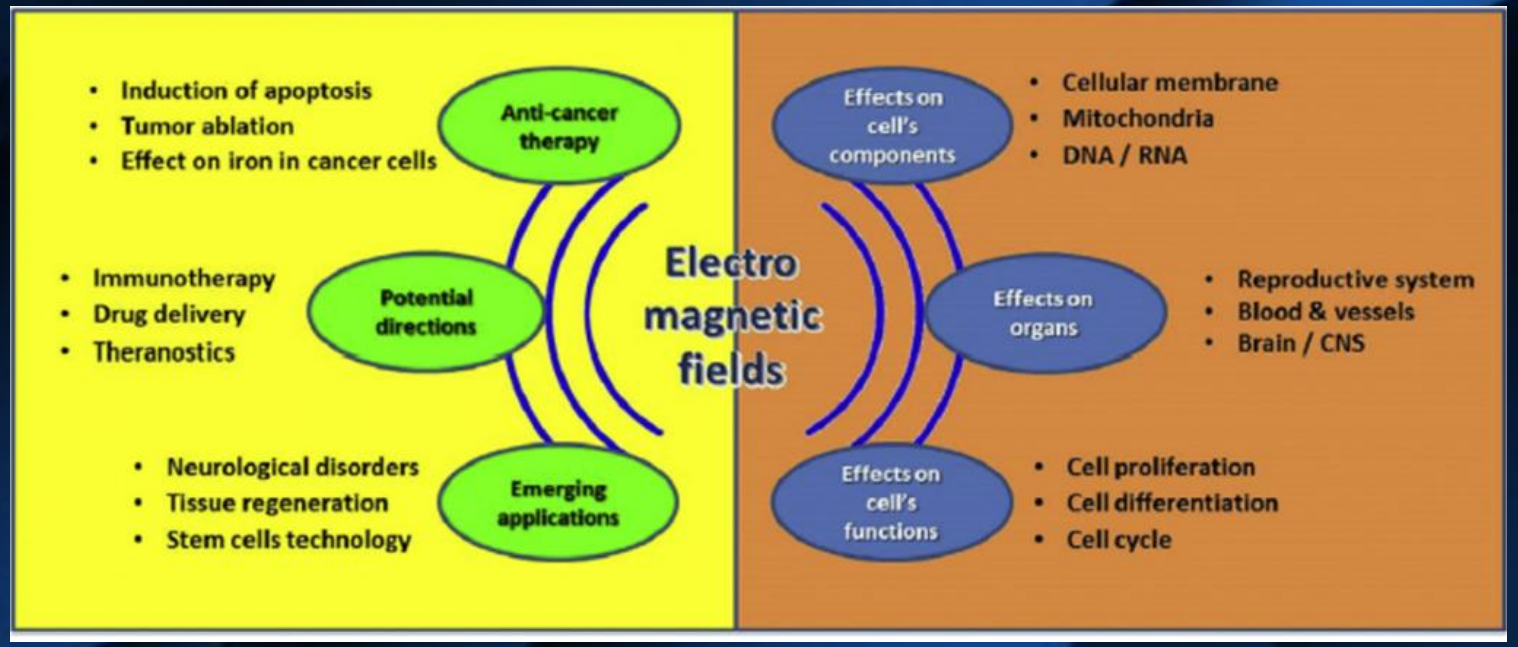
Contents lists available at ScienceDirect

Progress in Biophysics and Molecular Biology

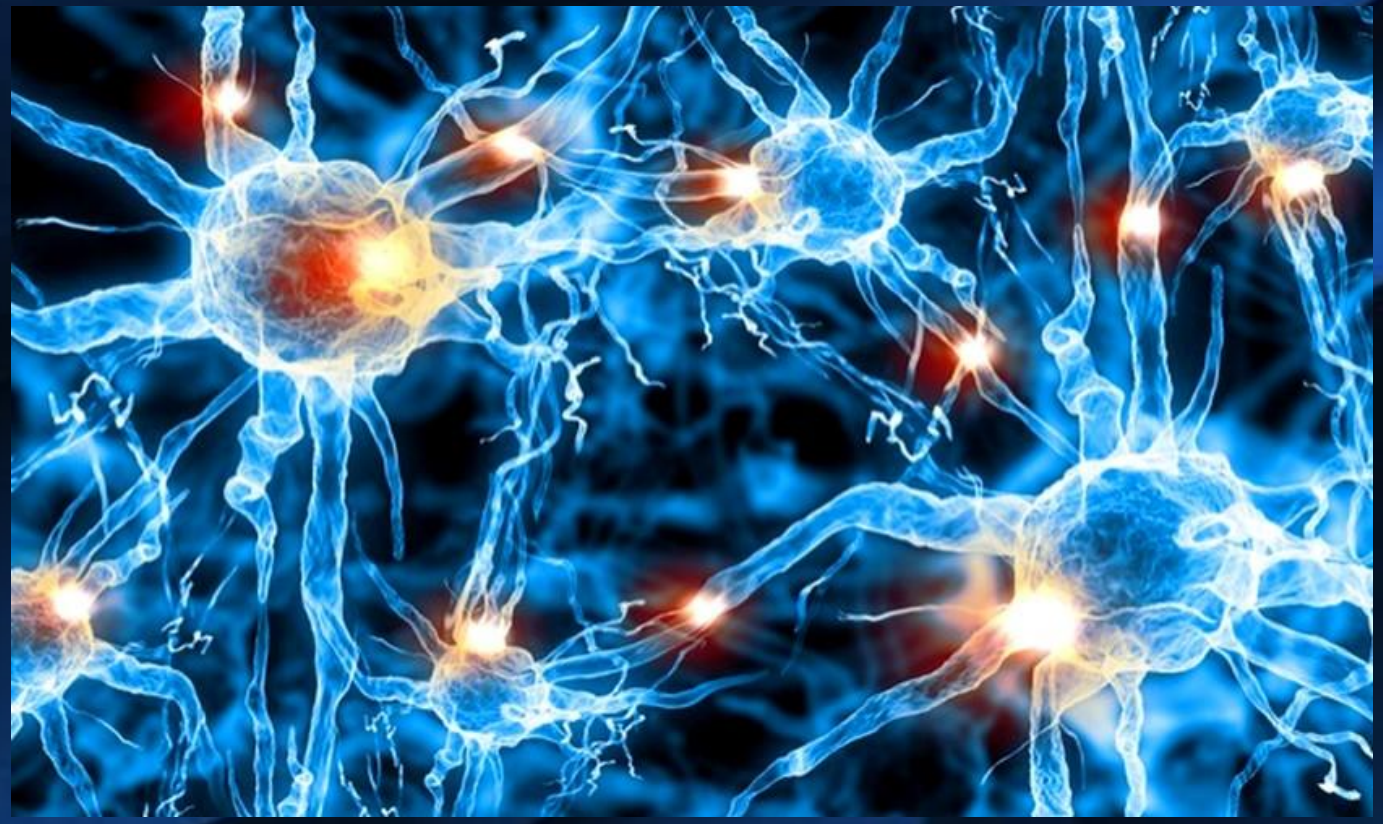
journal homepage: www.elsevier.com/locate/pbiomolbio

Biological effects of non-ionizing electromagnetic fields: Two sides of a coin

Timur Saliev [a, b, *], Dinara Begimbetova [b], Abdul-Razak Masoud [b], Bakhyt Matkarimov [b]



…TO A COMPLEX "40˙000 BILLION-CELLS" NETWORK



Bianconi E, Piovesan A, Facchin F, Beraudi A, Casadei R, Frabetti F, Vitale L, et al. An estimation of the number of cells in the human body. Ann Hum Biol. 2013;40(6):463-71.

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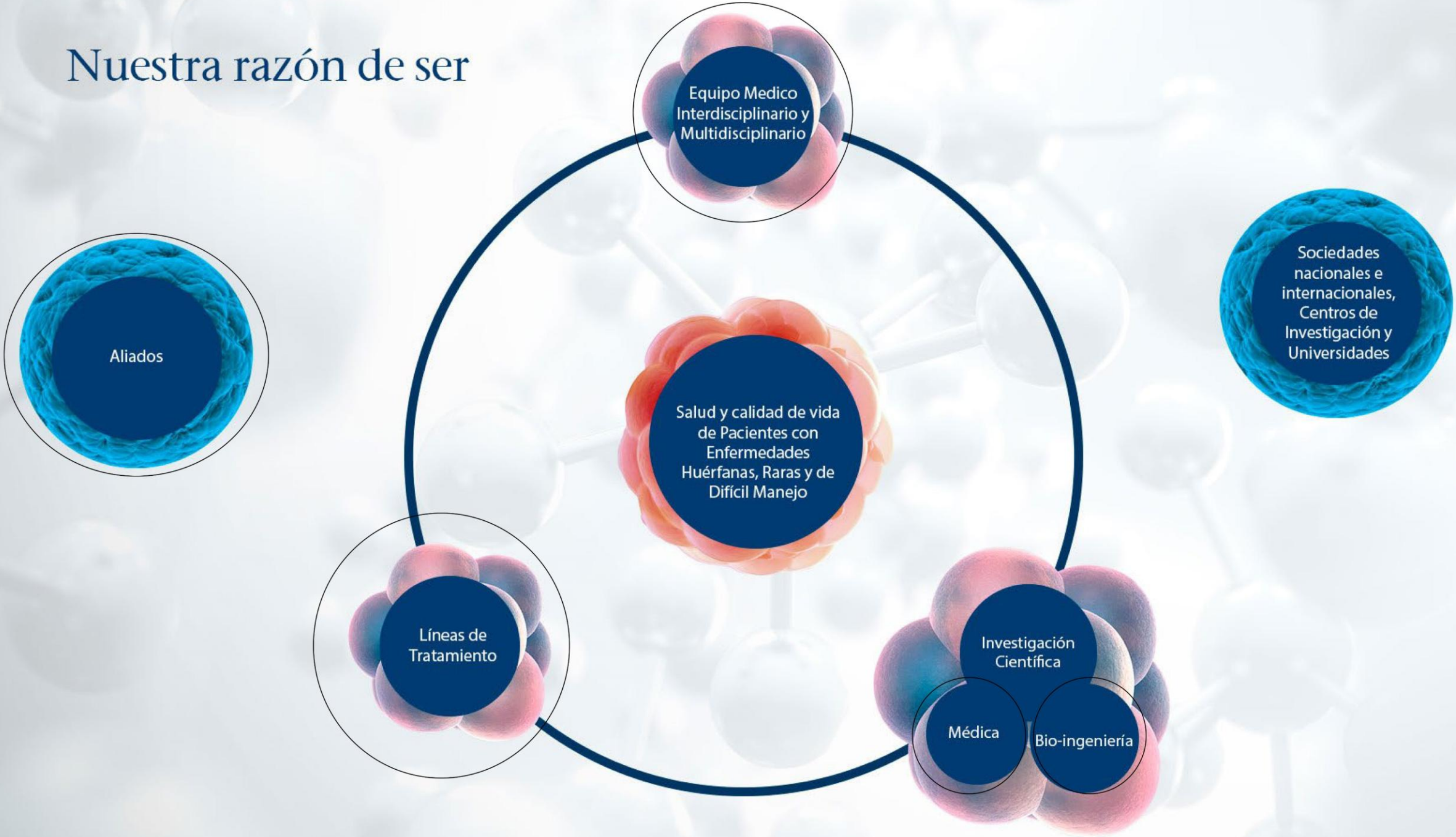
Nuestra razón de ser



Medicina especialistas

- Anestesiólogo
- Regeneración Celular
- Neurólogo
- Neurocirujano
- Ortopedista
- Pediatra Especialista en adolescencia Neuropediatría
- Psicólogo Neuropsicología Especialista en pediatría
- Psiquiatría Especialista en pediatría y adolescencia
- Psicoanalista
- Intervencionista
- Gastroenterólogo
- Endosonografo
- Intervencionista
- Coloproctólogo
- Retinólogo

Medicina especialistas

- Oftalmólogo
- Dermatólogo
- Cardiólogo
- Neumólogo
- Otorrinolaringólogo
- Otólogo
- Cirugía de Cabeza y Cuello
- Nefrólogo
- Hepatólogo
- Ginecólogo
- Urólogo
- Epidemiólogo
- Radiólogo
- Neuro- rehabilitador
- Fisioterapeuta

Líneas de Tratamiento

Terapia con Nanofarmacología

Terapia con Medicamentos Activados Molecularmente

Terapia Microbiológica

Terapia Nutricional

- Nutracéuticos específicos
- Terapia Ortomolecular
- Aminoácidos esenciales y no esenciales

Terapias de Estimulación

- Ondas de choque (Focalizadas, radiales, desfocalizadas y diamagnéticas)
- Laser de alta intensidad desfocalizado
- Diamagnetoterapia (Implantación de Moléculas, Estimulación específica y Modulación)
- Estimulación Vascular con Contrapulsación Externa
- Estimulación Transcraneal

Terapias Celulares

- Factores de Crecimiento Autólogos y Heterólogos
- Exosomas
- Células mesenquimales autólogas (médula ósea, tejido autólogo, cordón umbilical, grasa)
- Células mesenquimales heterólogas (Gelatina de Warthon, tejido somático específico de ADN recombinante)
- Células Hematopoyéticas
- Concentraciones mononucleares de médula ósea

Diagnóstico

- Imupro (Alergias e inflamación crónica, estrés en sangre y saliva)
- Examen de Telómeros y Telomerasa
- Estudios genéticos para diagnóstico y valoración predictiva con secuenciación y para coadyuvante de tratamientos.
- Exámenes específicos e imagenológcos especializados con fMRI con la Universidad de California

Cell Regeneration
Medical Organization

La medicina de hoy:

- La quimioterapia como norma de tratamiento
- Diagnóstico del recién nacido después de la atención
- Basado en los síntomas y aplicada universalmente

Pruebas genéticas para todos:

✓ Información sobre el riesgo para una prevención eficaz

✓ Detección temprana para la erradicación de la enfermedad

✓ Terapia personalizada y seguimiento basado en biomarcadores

✓ Atención sanitaria con información genética a lo largo de la vida

Cell Regeneration
Medical Organization

Diagnóstico Medicina Personalizada

Incorporación de los últimos avances genómicos a la atención de salud habitual

Prevención

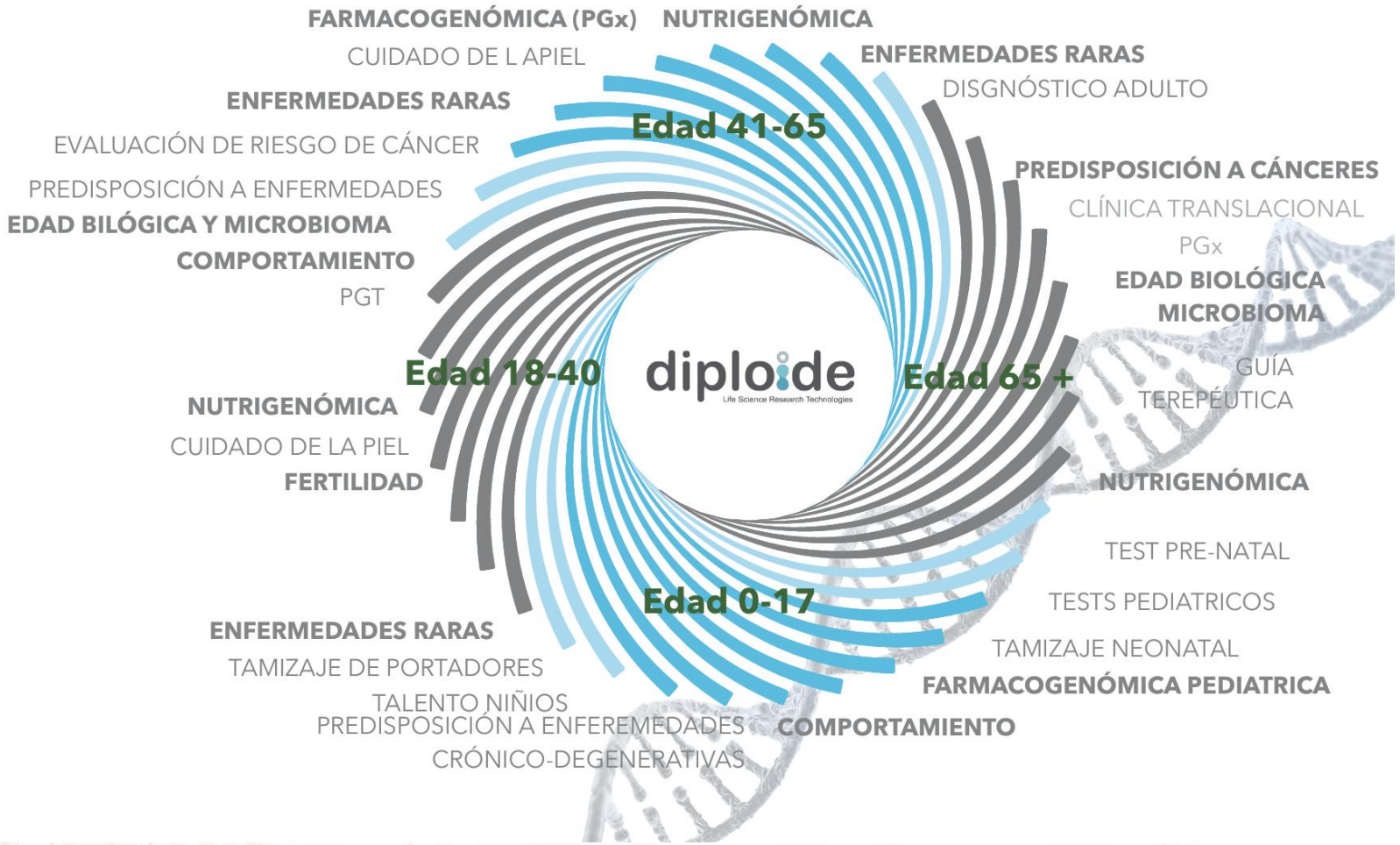
Permitir la atención predictiva y preventiva para mejorar la salud pública y el bienestar

Investigación

Apoyar investigación y garantizar una interfaz sin fisuras entre la investigación y la prestación de asistencia en salud

CELL REGENERATION
MEDICAL ORGANIZATION

SECUENCIACIÓN COMPLETA DEL GENOMA
SECUENCIACIÓN COMPLETA DEL EXOMA
SECUENCIACIÓN INDIVIDUAL DE CÉLULAS
EPIGENÉTICA



Gestión del peso

Nutrición personalizada

Deporte y Fitness

Fertilidad

Cuidado de la piel

Predisposiciones de salud

Farmacogenómica

Descubrimiento del niño

Comportamiento (Psiquiatría/Psicología)

Microbioma

Genoma completo

CELL REGENERATION
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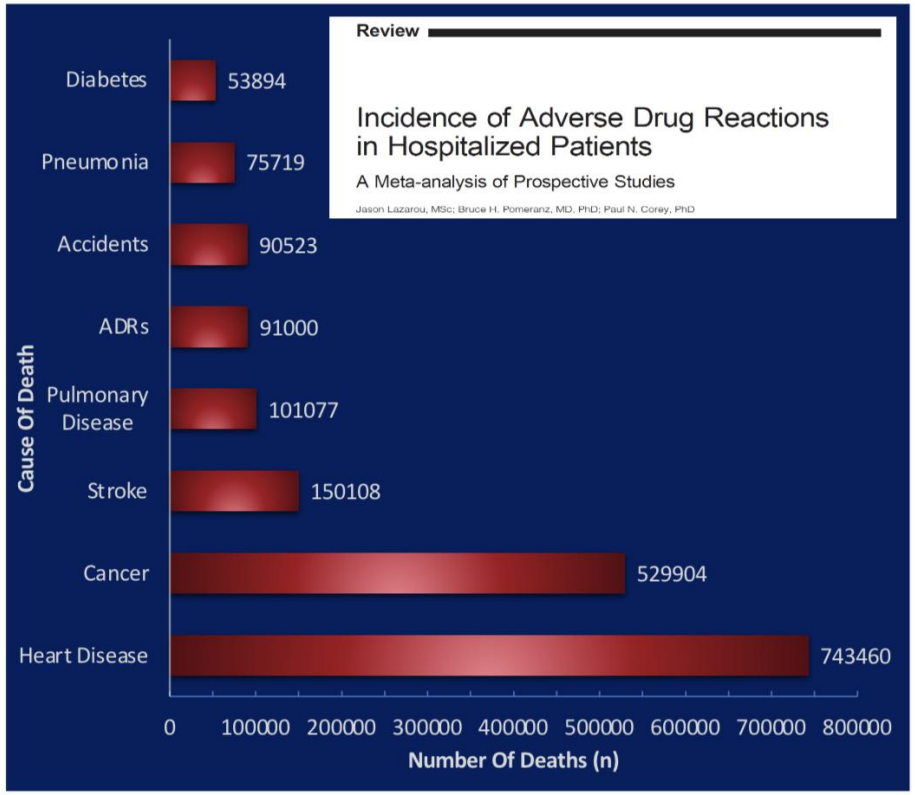
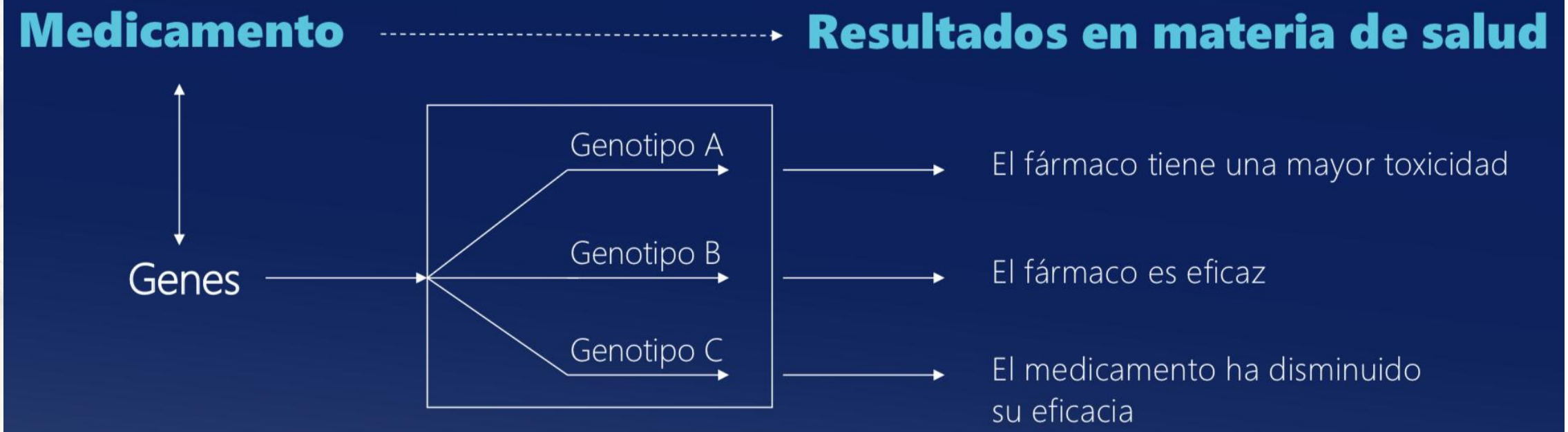
Cell Regeneration
Medical Organization

Las reacciones adversas a los medicamentos son la quinta causa de muerte en EE.UU.



Lazarou et. al, JAMA, 1999

Una talla no sirve para todos



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Comprehensive pharmacogenetic test consists of 425 genetic markers in the following categories:

- Manejo del dolor
- Cardiovascular
- Neurología
- Psiquiatría
- Infectología
- Endocrinología
- Urología
- Endocrinología
- Oncología Hematología
- Medicina Interna
- Transplante de Órganos
- Drogas recreacionales

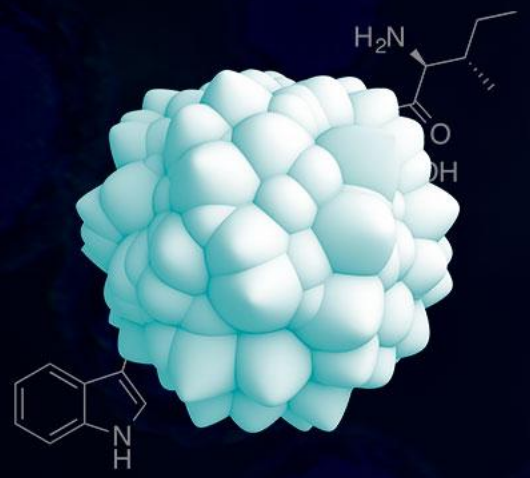
Cell Regeneration
Medical Organization

diploide
Life Science Research Technologies

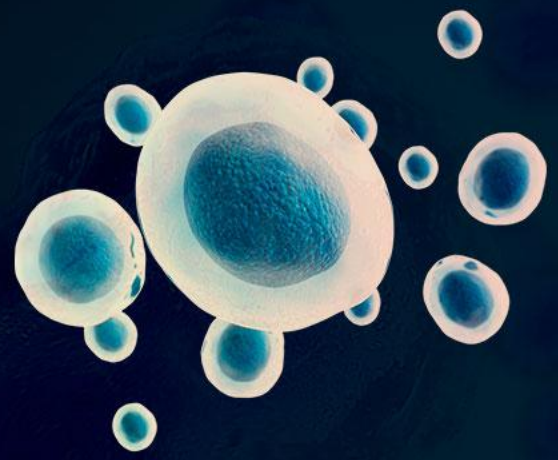
PGx Report - Psychiatry

Type: Antidepressant I

Drug Class	Generic	Primary Mechanism Involved	Other Mechanisms Involved	May Have Decreased Efficacy	Used As Directed	May Have Increased Toxicity
Antidepressants						
SSRIs	Citalopram	CYP2C19, CYP2D6	CYP3A4, CYP3A5, SLC6A4, HTR2A			
	Escitalopram	CYP3A4, CYP2C19	CYP2D6, CYP3A5, SLC6A4, HTR2C			
	Dapoxetine	CYP2D6	CYP3A4, CYP3A5, FMO1			
	Fluoxetine	CYP2D6	CYP3A4, CYP2C9, CYP3A5, CYP2C19, SLC6A4, HTR2A			
	Paroxetine	CYP2D6	CYP3A4, CYP1A2, CYP3A5, CYP2C9, SLC6A4, HTR2A, DRD3			
	Sertraline	CYP2B6	CYP2C19, CYP2C9, CYP3A4, CYP2D6, SLC6A4			
	Fluvoxamine	CYP2D6	CYP1A2, SLC6A4, HTR2A			
SMSs	Vilazodone	CYP3A4	CYP3A5, CYP2C19, CYP2D6			
SNRIs	Levomilnacipran	CYP3A4	CYP2C8, CYP3A5, CYP2C19, CYP2D6			
	Milnacipran	UGTs	Renal Excretion			
	Venlafaxine	CYP2D6	CYP2C19, CYP3A4, CYP2C9, CYP3A5, SLC6A3, SLC6A4, HTR2A			
	Duloxetine	CYP2D6	CYP1A2, HTR2A			
NRIs	Atomoxetine	CYP2D6	CYP2C19, CYP3A4, CYP3A5, SLC6A2			
	Reboxetine	CYP3A4	CYP3A5			
	Maprotiline	CYP2D6	CYP1A2			
TCAs that preferentially inhibit the reuptake of serotonin	Clomipramine	CYP2D6	CYP3A4, CYP2C19, CYP1A2, CYP2C9, SLC6A4, HTR2A			
	Imipramine	CYP1A2, CYP2D6	CYP2C19, CYP3A4, CYP3A5, UGT1A3, UGT1A4			



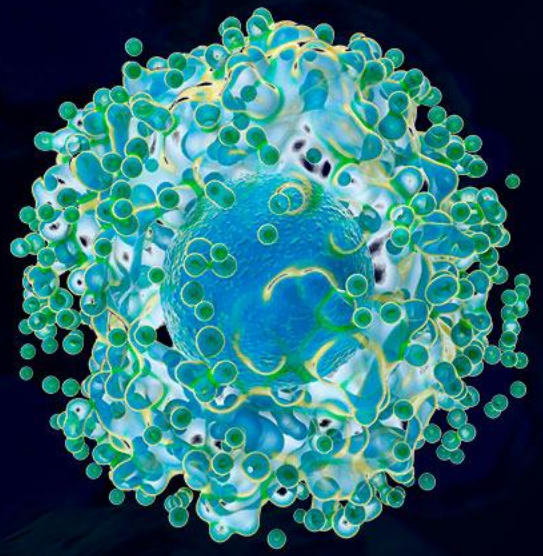
Nanopharmacology Therapy



Cell Therapies

Diamagnetotherapy

Tissue regeneration therapy

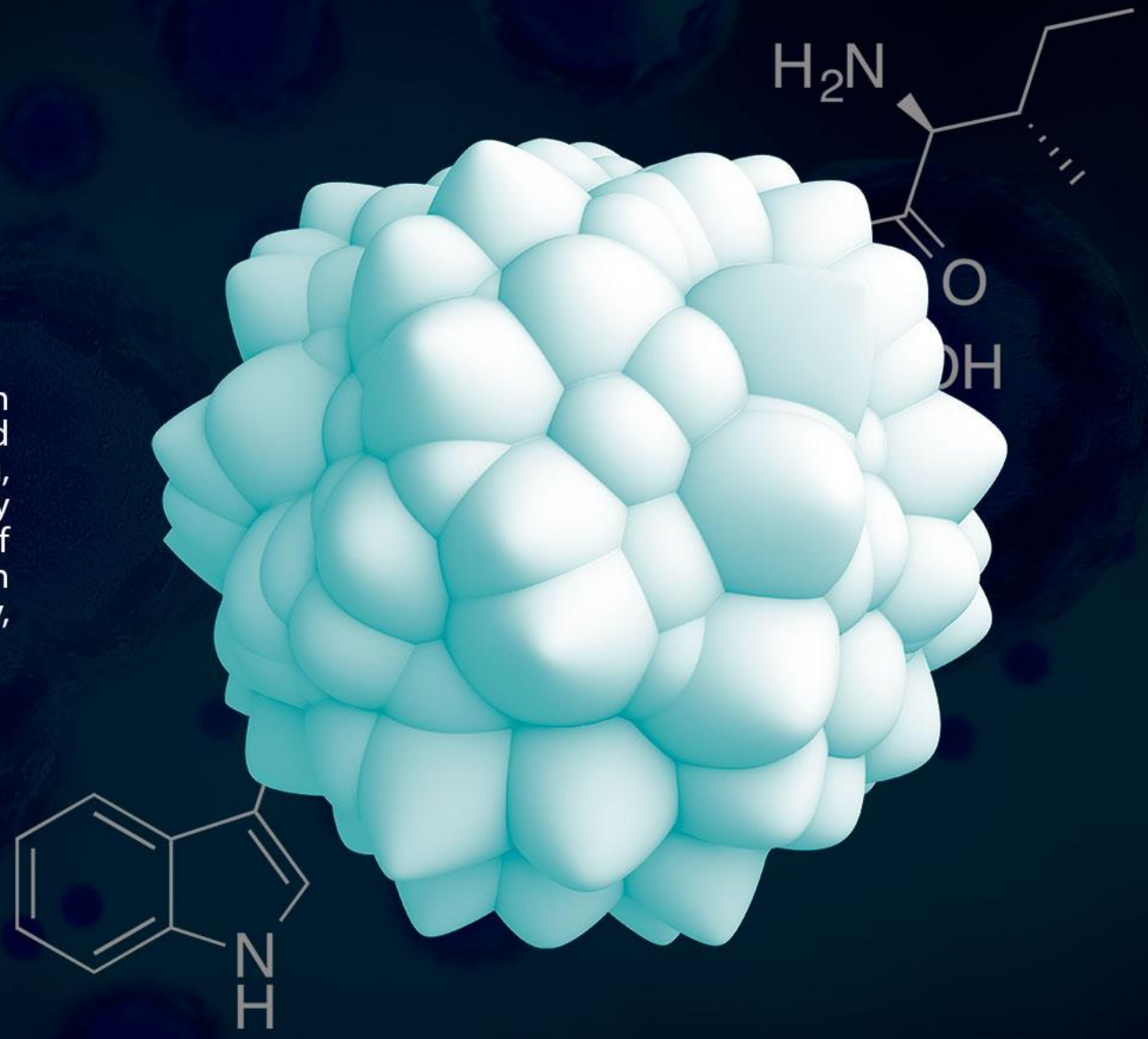


High intensity laser therapy

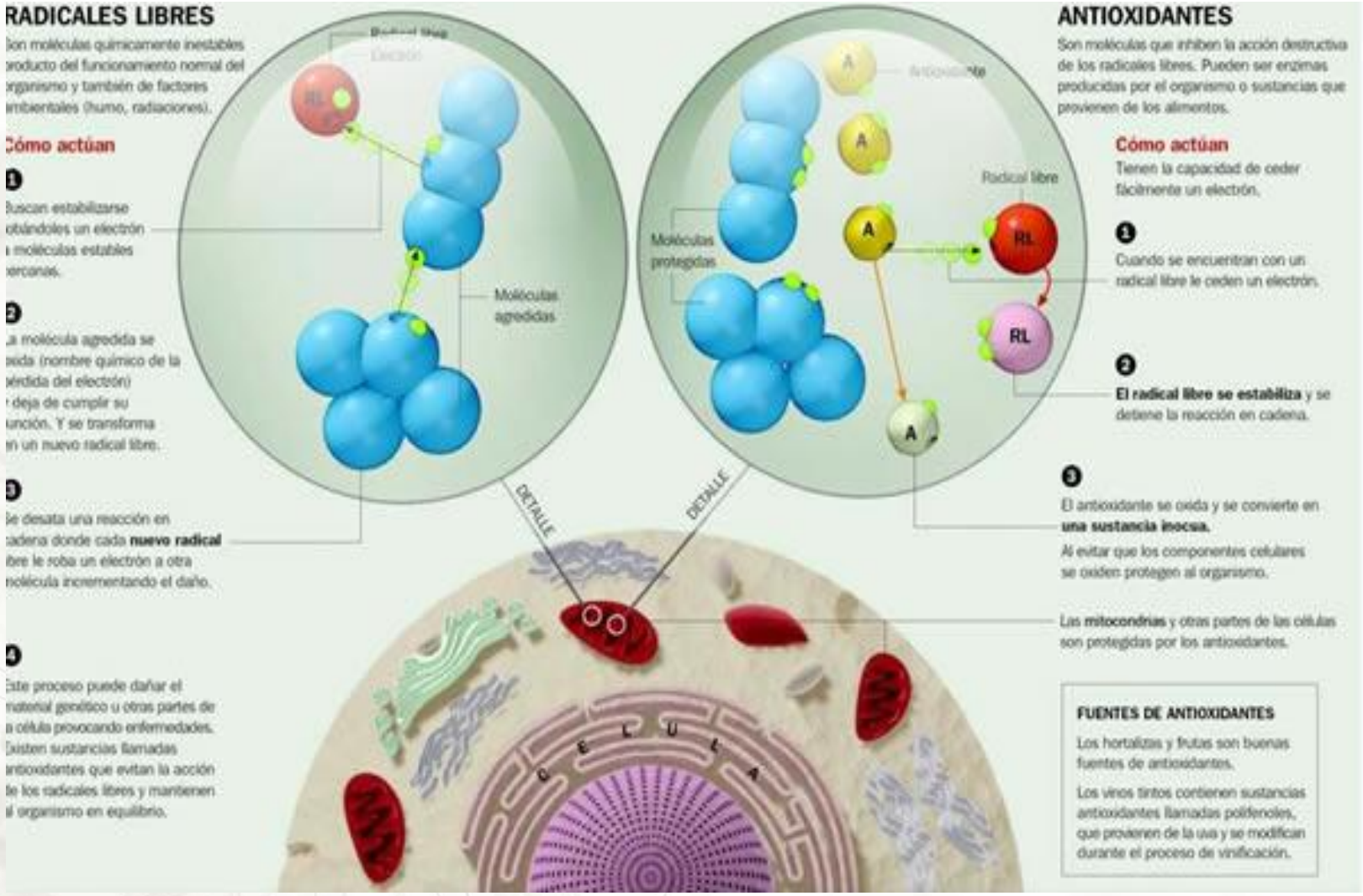
Transcranial stimulation therapy

Nanopharmacology Therapy

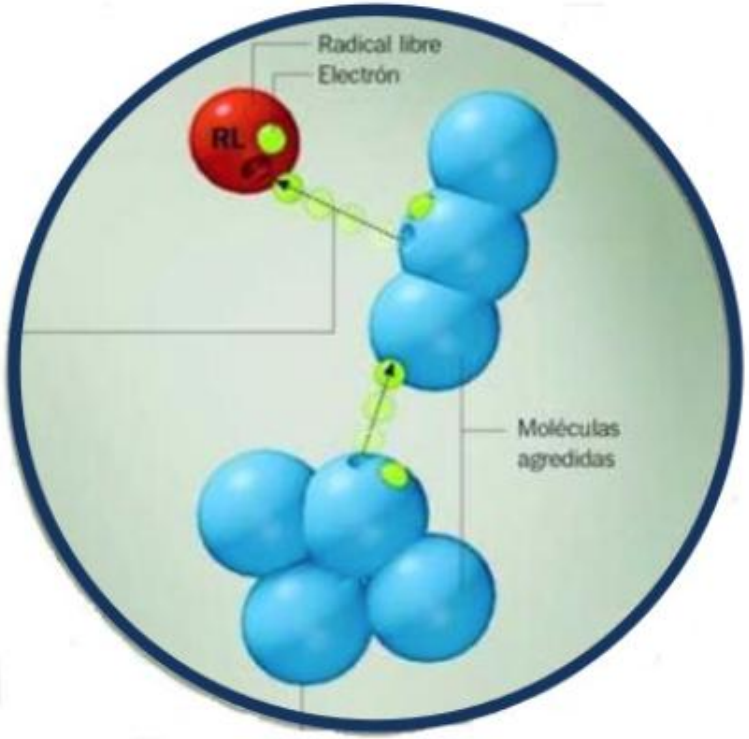
It allows the administration of intercellular communication molecules such as interleukins, hormones, neuropeptides and growth factors, necessary for cell differentiation, regeneration, growth and regulation. In this way, a benefit is generated by increasing the availability of the drug in the tissues or organs of the system that is affected by the disease, by providing it in specific concentrations ideal for communication in the body, while minimizing toxicity and side effects.



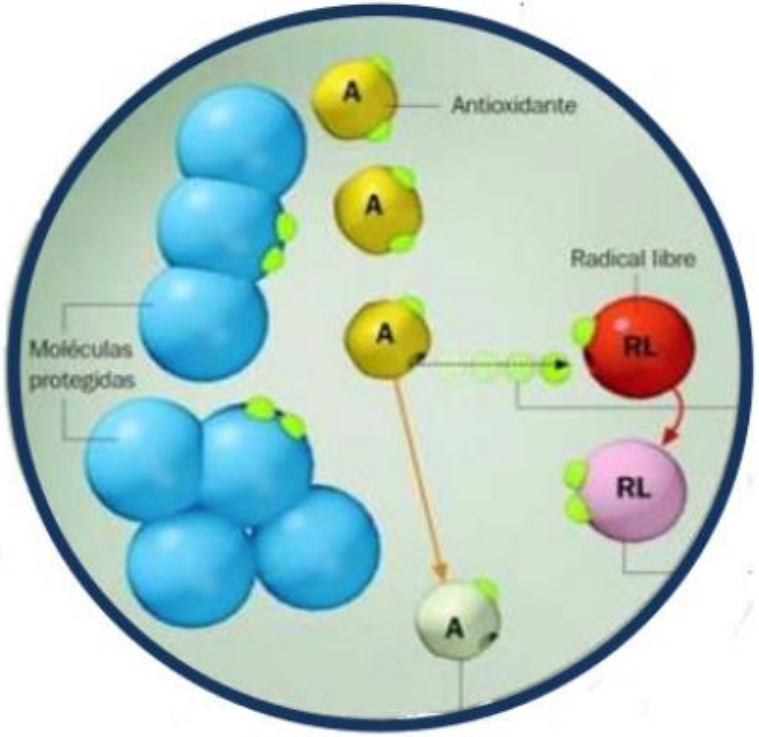
Estrés oxidativo



Radicales Libres



Antioxidantes



Los antioxidantes pueden reemplazar al electrón perdido o desprenderse de uno para estabilizar al radical libre y así evitar el daño molecular restándole poder reactivo.

Estrés oxidativo

- Enfermedades conocidas por EO:

Ateroesclerosis, IAM, ACV, Ca, enfisema, cirrosis, EPOC, síndrome metabólico, diabetes, HTA, sida, inmunodeficiencias, ulcera péptica, alergias, asma, enf. Autoinmunes, gastritis, migraña, dermatitis atópica, enf. De Alzheimer, Parkinson, osteoporosis.

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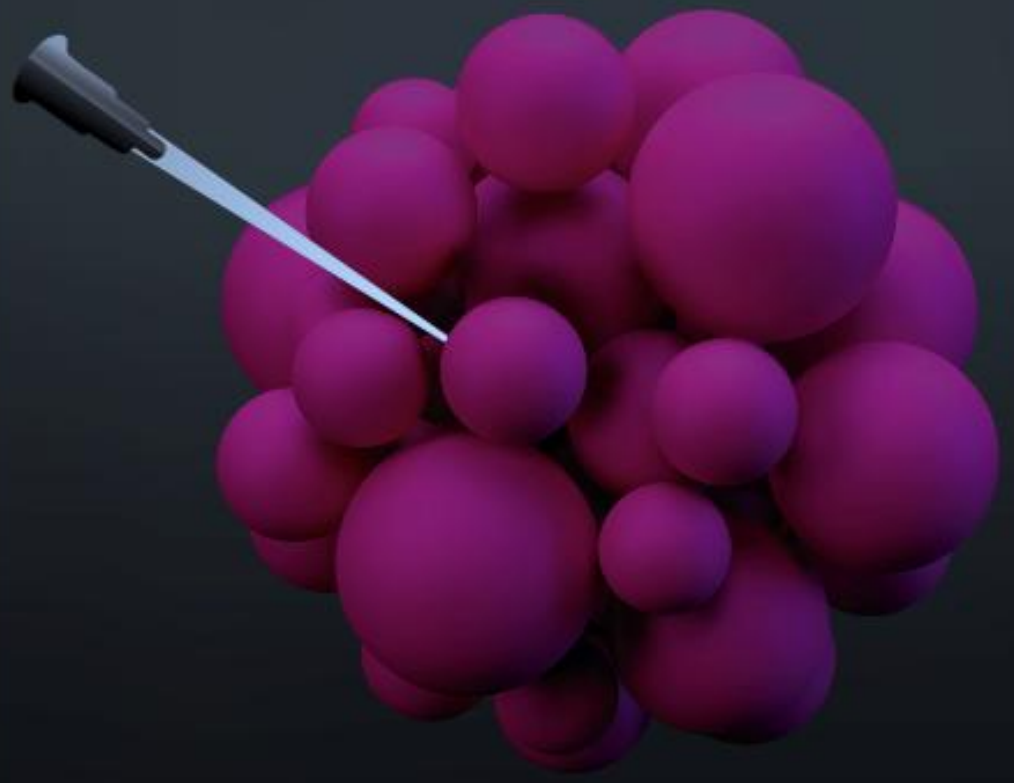
LA TECNOLOGÍA MAT

ACTIVACIÓN MOLECULAR PARA MAYOR EFECTIVIDAD



El proceso biocatalítico de la activación molecular consiste en inyectar electrones en la molécula mediante un catalizador.

CELL REGENERATION
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LA TECNOLOGÍA MAT

ACTIVACIÓN MOLECULAR PARA MAYOR EFECTIVIDAD

¿Qué efecto clínico tiene?

Aumenta hasta + 7,000 = Mayor Capacidad Biológica (efecto clínico)

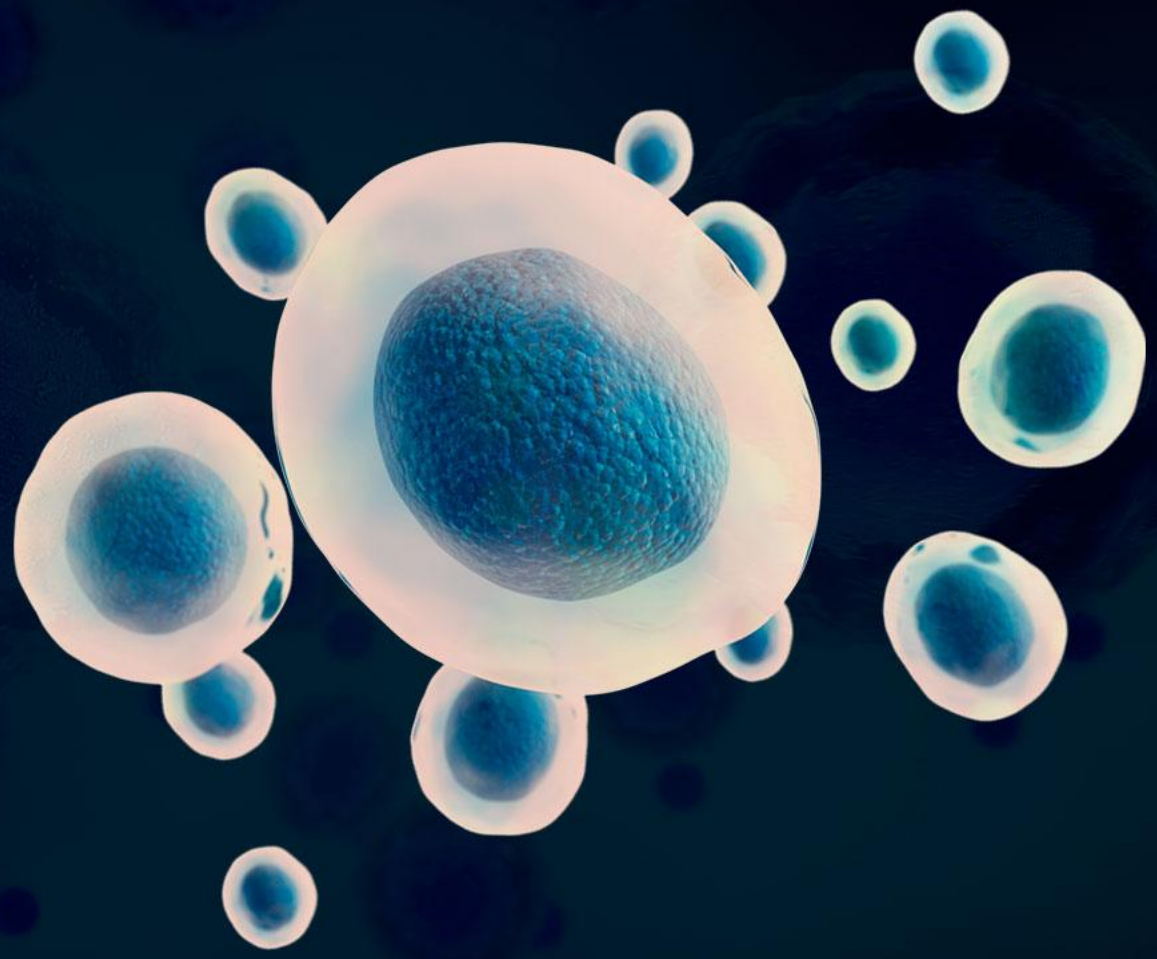
la capacidad antioxidante de la molécula.

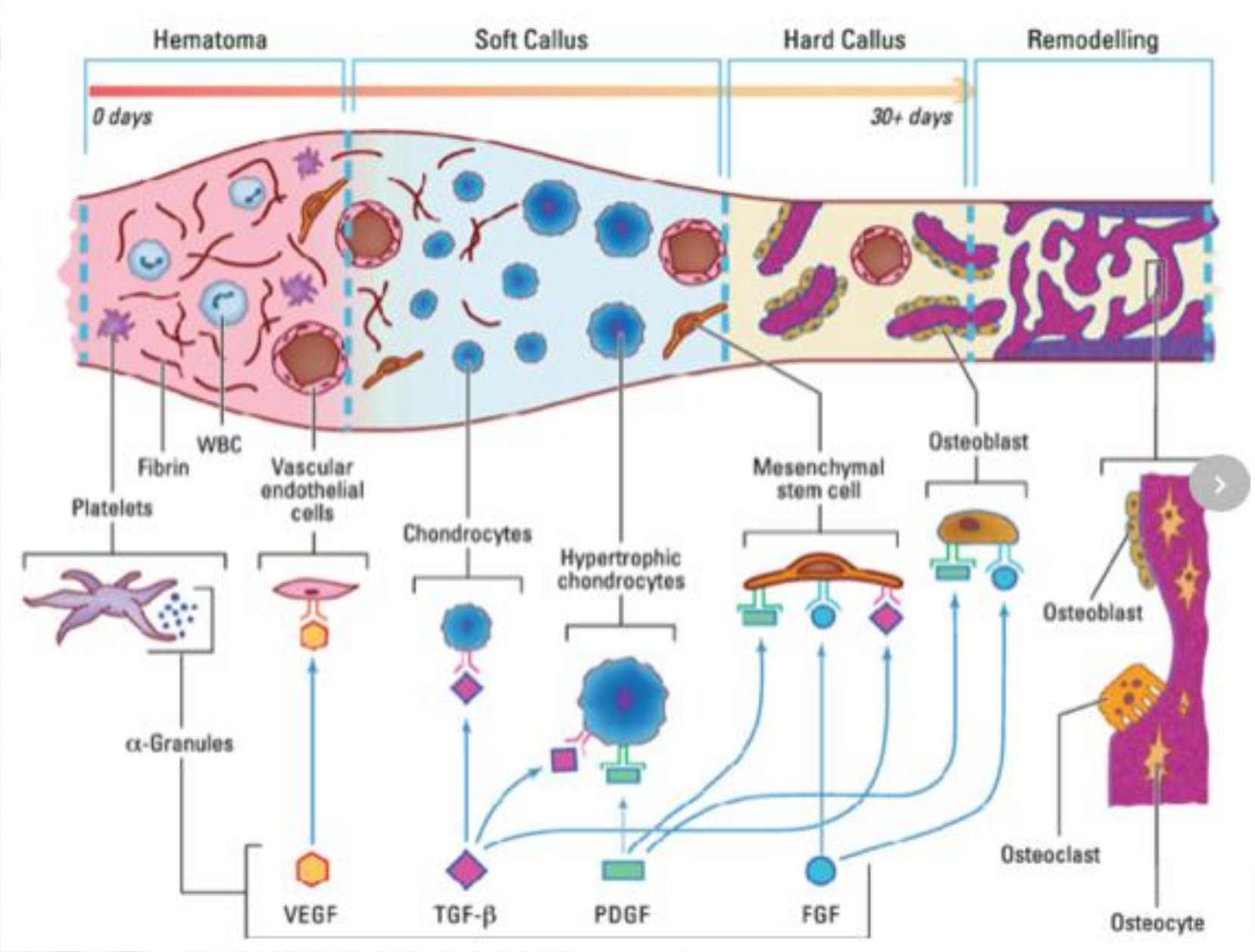
Requiere menos dosis = Menos efectos secundarios

Cell therapies

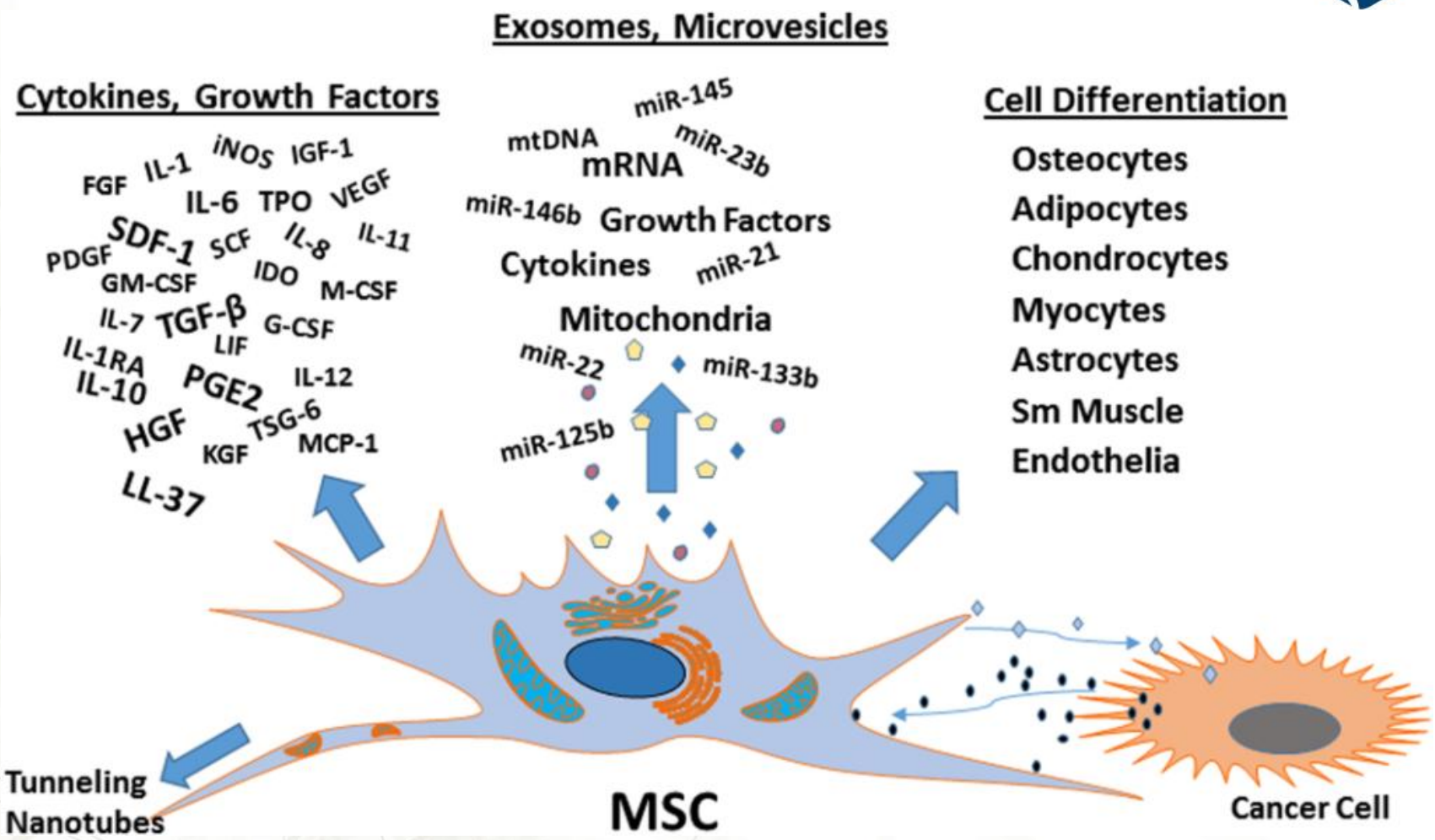
Different types of treatments and implantations are carried out, together with an expansion, modulation and adaptation in the laboratory of the cells, according to the pathology to be treated and the organ or tissue affected. These implantation processes are performed in surgery rooms under a sterile environment, with the highest quality standards, by specialists in the area corresponding to the organ or system being treated. In addition, a marking, identification, characterization and categorization is performed by means of genetic sequencing of the cell to be implanted to give a reliability surcharge of its development and differentiation

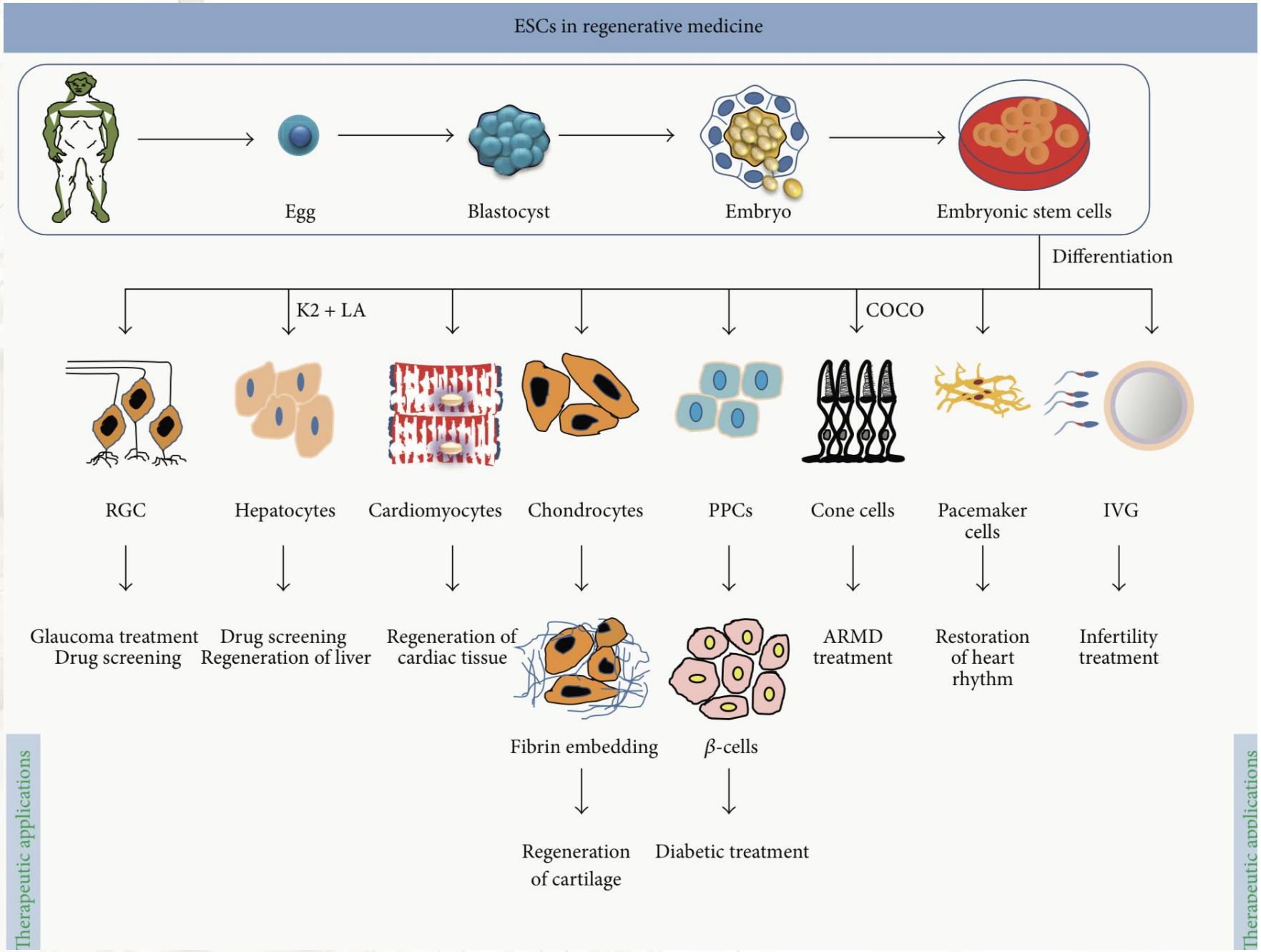
- Autologous Growth Factor Therapy (AGFS)
- Exosome Treatment
- Defocalized Shock Waves
- Autologous Stem Cells
- Heterologous Stem Cells



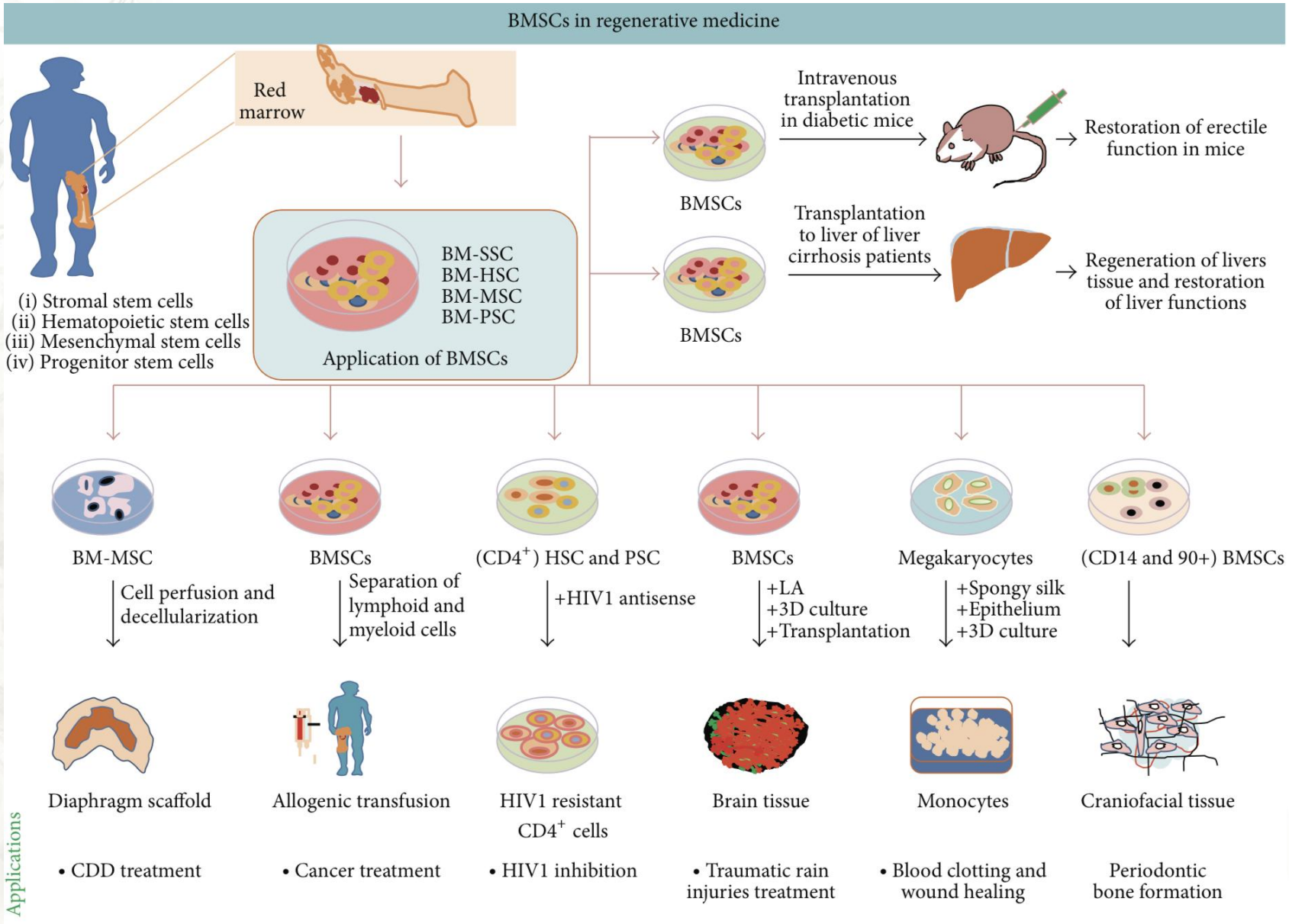


CELL REGENERATION
MEDICAL ORGANIZATION


Exosomes, Microvesicles
Cytokines, Growth Factors
FGF
IL-1
iNOS
IGF-1
IL-6
TPO
VEGF
PDGF
SDF-1
SCF
IL-8
IL-11
GM-CSF
IDO
M-CSF
IL-7
TGF-β
G-CSF
IL-1RA
LIF
IL-10
PGE2
IL-12
HGF
TSG-6
KGF
MCP-1
LL-37
miR-145
mtDNA
miR-23b
mRNA
miR-146b
Growth Factors
Cytokines
miR-21
Mitochondria
miR-22
miR-133b
miR-125b
Cell Differentiation
Osteocytes
Adipocytes
Chondrocytes
Myocytes
Astrocytes
Sm Muscle
Endothelia
Tunneling
Nanotubes
MSC
Cancer Cell



CELL REGENERATION
MEDICAL ORGANIZATION



CELL REGENERATION
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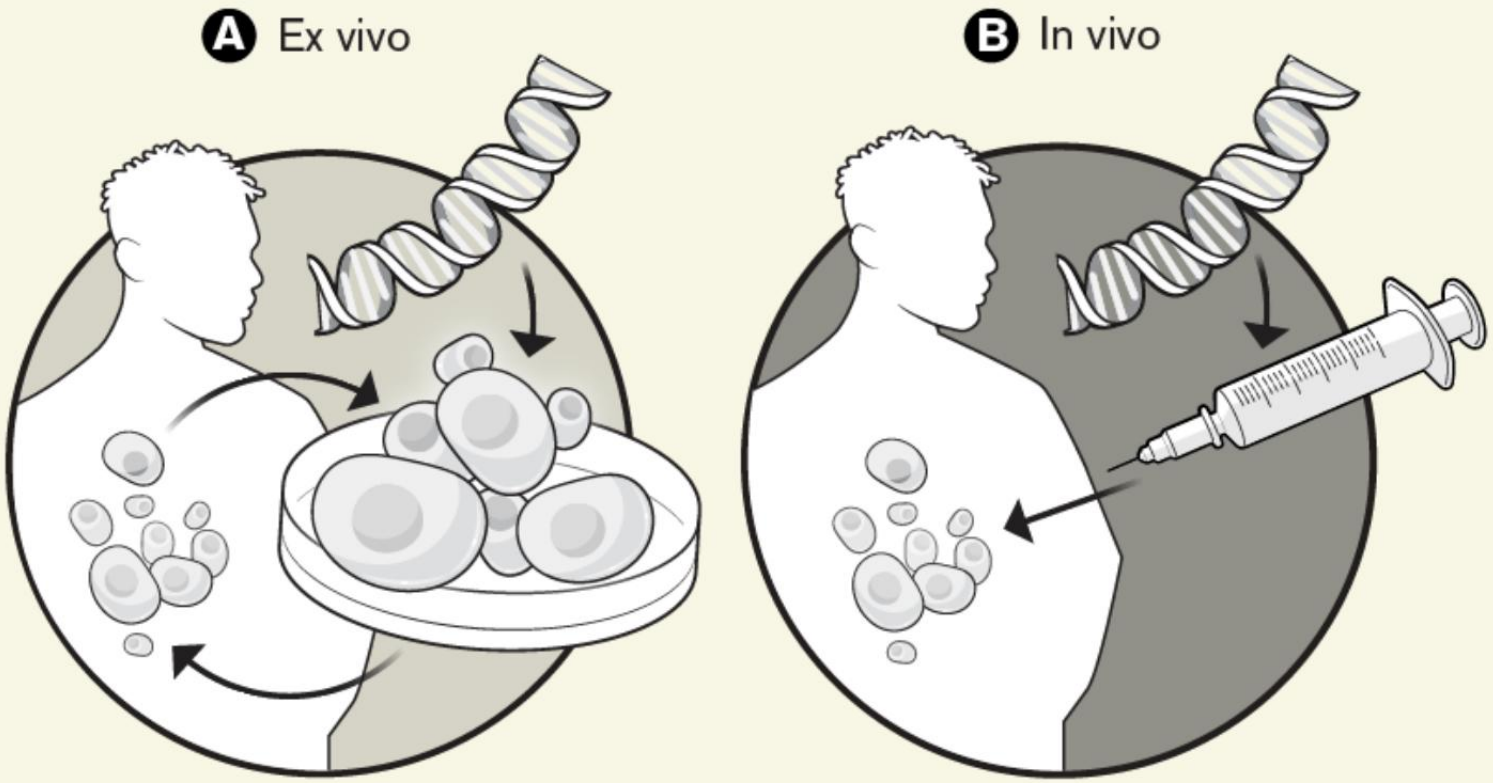
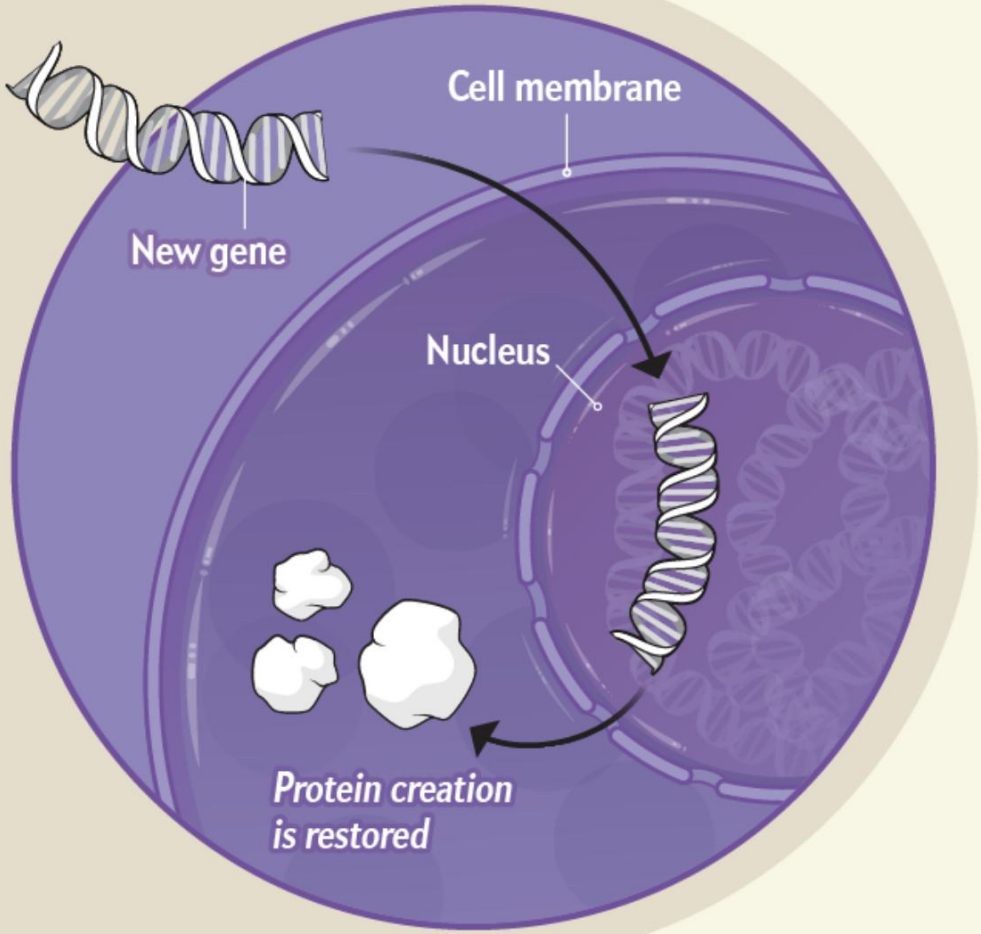
Location

Ex vivo gene therapy involves removing blood, bone marrow or other tissues from a patient, isolating the cells of interest and correcting them in the lab before reinfusing them back into the body **A**. In vivo approaches send therapeutic genes, gene modulators or gene-editing tools directly to cells in affected tissues within the patient's body **B**.



Introduce a New Gene

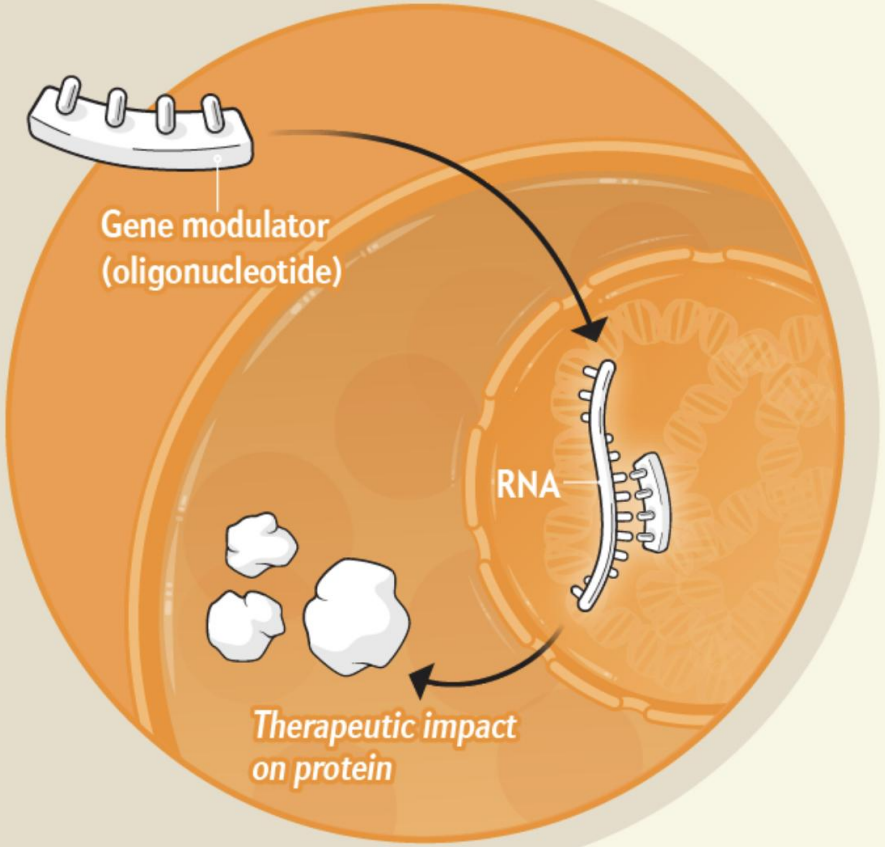
This approach, the first to be tested in humans, equips affected cells with a working copy of the gene that is missing or malfunctioning in the disease. Whereas this strategy can work for diseases traced to a single genetic glitch, many conditions involve multiple genetic and environmental factors.



Cell Regeneration
Medical Organization

Modulate an Existing Gene's Activity

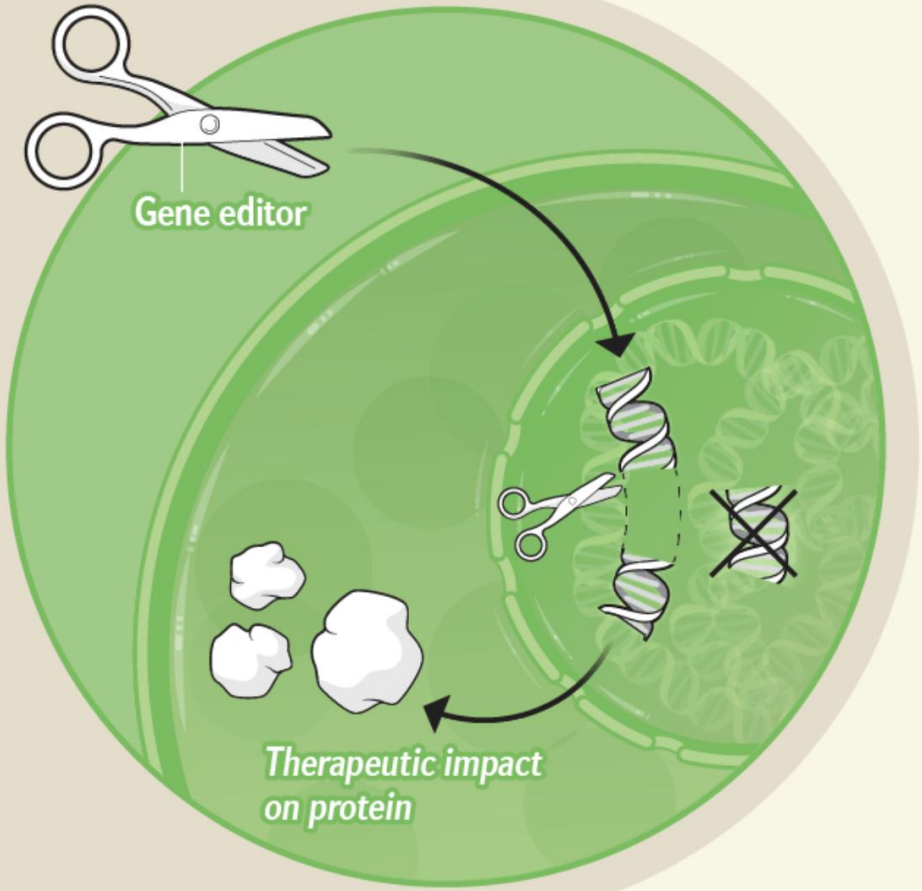
Other therapies send short sequences of nucleic acids, called oligonucleotides, into affected tissues where they can influence how cells build working proteins from underlying genetic code. Unlike gene replacement or correction, this approach is not permanent, and patients must receive regular infusions for continued benefits.



Cell Regeneration
Medical Organization

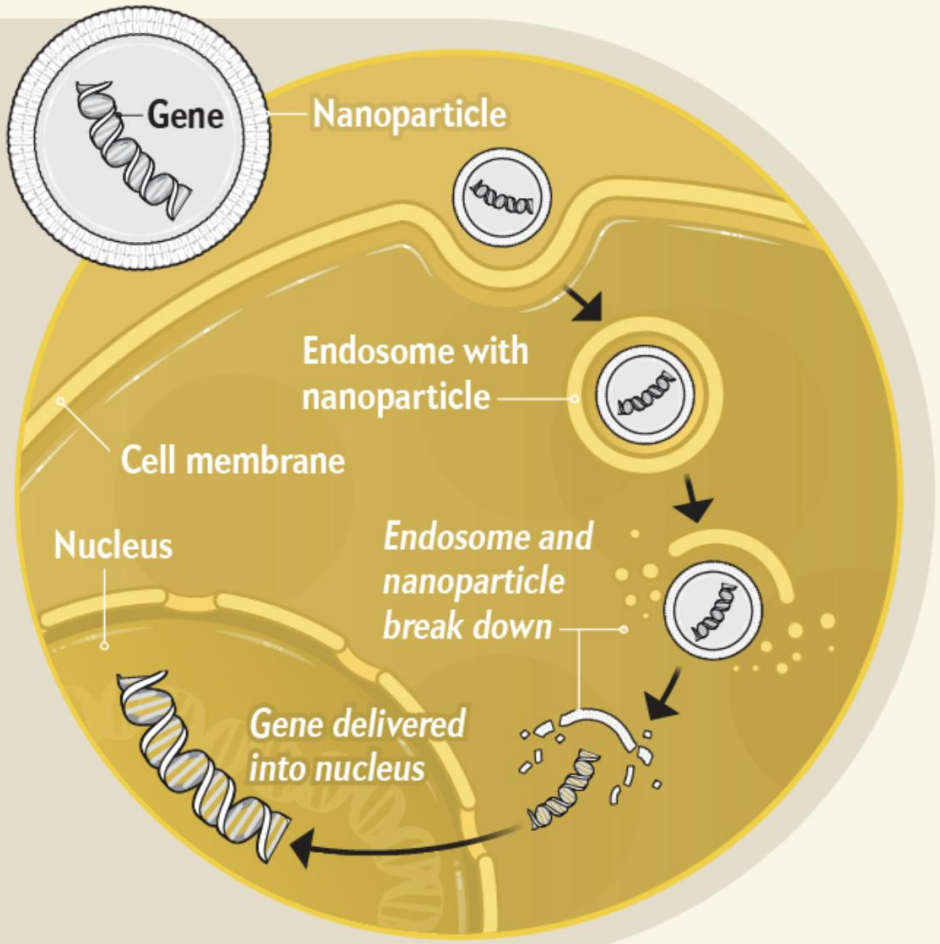
Edit Gene Directly

These approaches aim to fix errors in specific genes of affected cells. Newer methods use a gene-editing system called CRISPR-Cas9 to make precise changes in the genome.



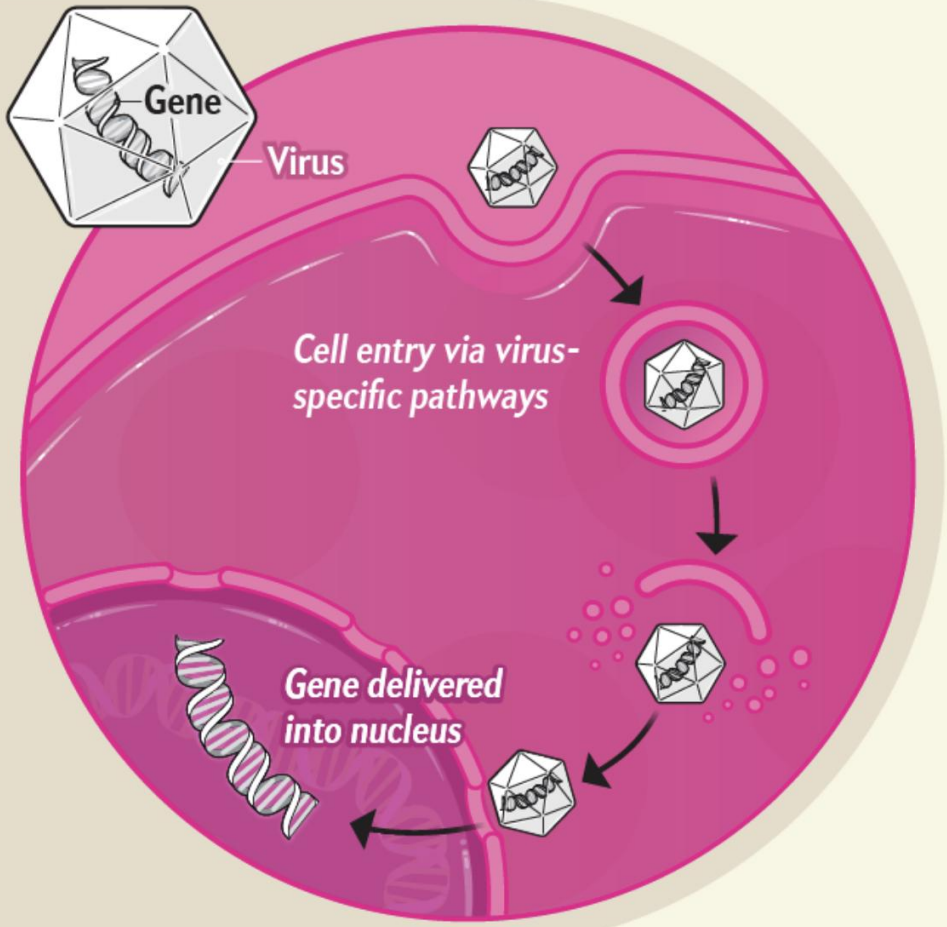
Nanoparticles

These gene therapies use nanoparticles to carry genes or gene-editing tools directly into cells of affected tissues. Nanoparticles can be chemically modified to avoid immune detection and to better target cells.



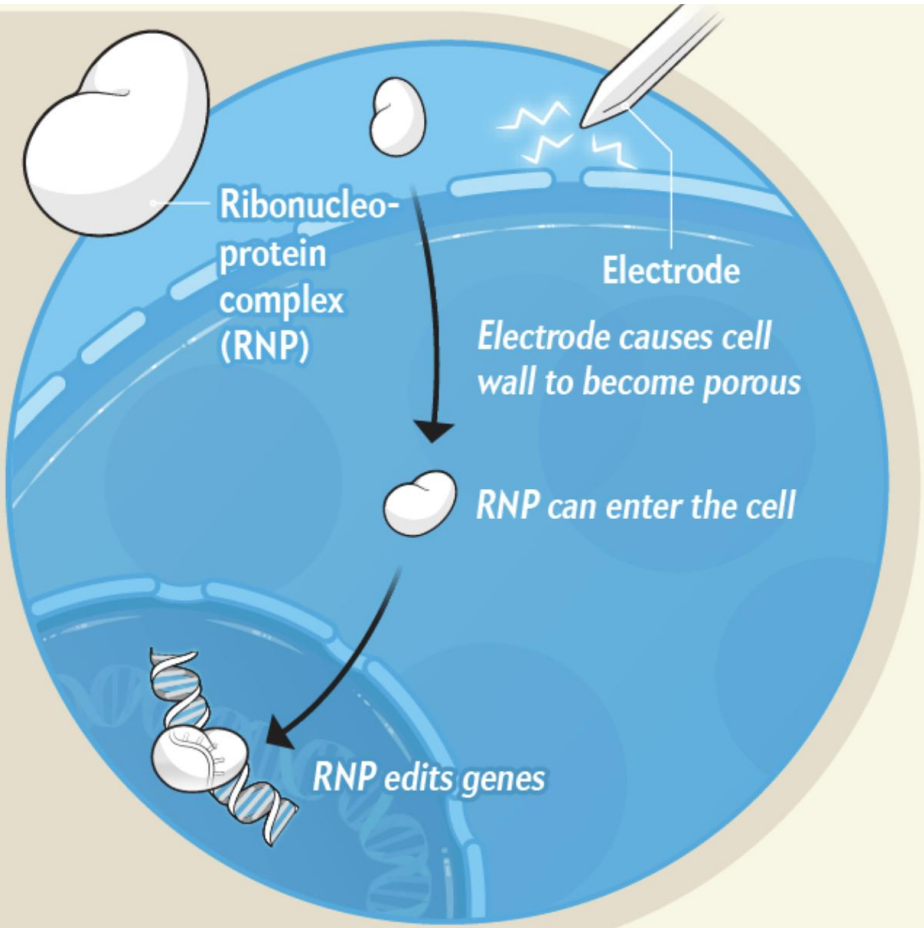
Virus

This approach delivers genes or gene-editing cargo with viruses that researchers have engineered to minimize chances of harmful immune responses and unintended effects on healthy cells.



Other

Clinical trials are testing newer approaches that send gene-editing machinery into cells as complexes of molecules that work together to target and make precise cuts within specific DNA sequences to delete or fix genes



Diamagnetic therapy

Therapy performed from the application of a magnetic field of 2 Teslas that allows the movement of molecules and liquids within the body. This field is applied to defined frequencies and powers for pain management, specific endogenous tissue stimulation and fluid displacement inside and outside the cell, leading to a stimulation of cell function and regeneration. Likewise, research and development is being carried out for the supply and transcutaneous implantation of nanopharmacology and oncological therapies, in the specific area of the pathology. This has allowed the treatment of a wide range of diseases and conditions, such as seizure disorders, cerebellar ataxia, tetraplegia, among others, thanks to the combination with the other therapies applied.

[redacted]

Project

CELL REGENERATION

MEDICAL ORGANIZATION

PERISO SA

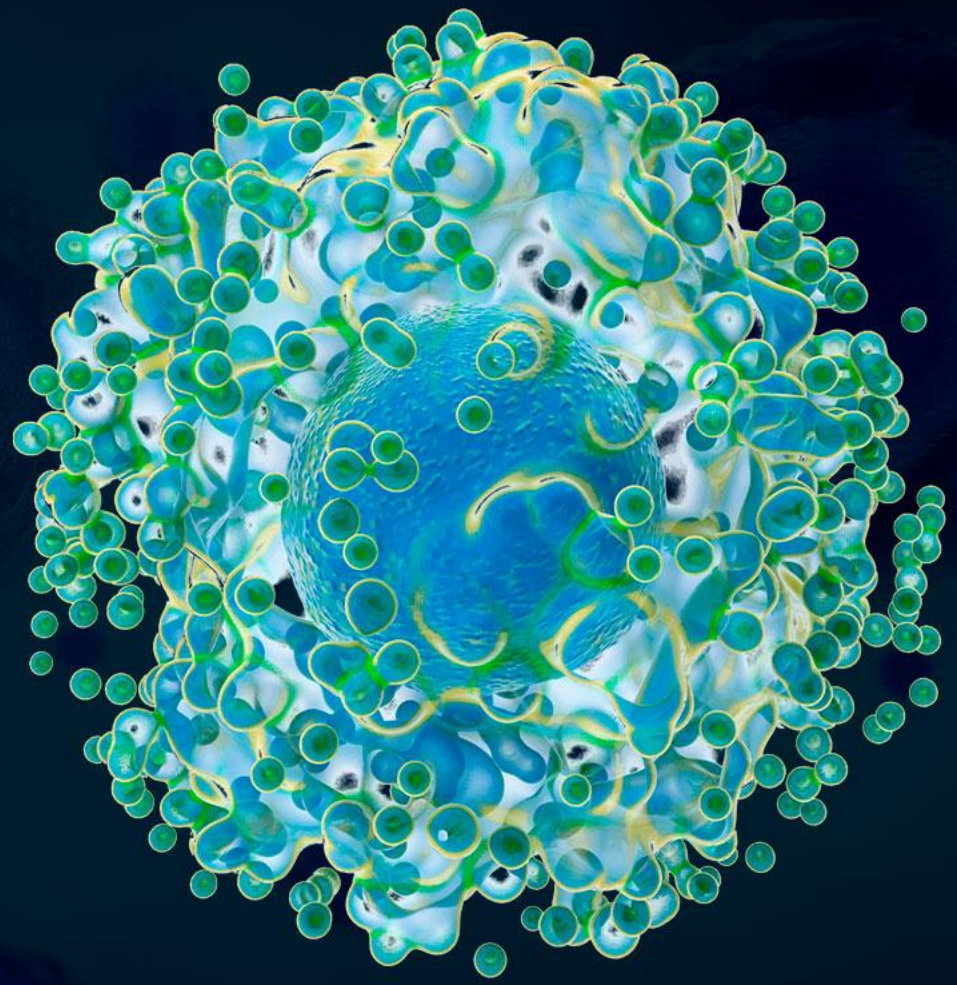
technology that evolves

Estudios con Periso SA

- Casos clínicos aislados
- Evaluación de Neurocirugía para Discopatías
- Valoración del Flujo Vascular
- Cambios en el Perfil Genético Celular
- Estudio del dolor Neuropático
- Efecto de la Diamagnetoterapia con terapia celular
- Cambios Neuroendocrinos
- Neurodegeneración con y sin Vitamina D
- Implantación Molecular en Cáncer
- Desarrollo de Protocolos de Diamagnetoterapia

Tissue regeneration therapy

Therapy performed with electroporation, stable growth factors, hyaluronic acid and tissue stimulation therapies for the regeneration of epidermal lesions, with therapeutic and aesthetic objectives, among which are the treatment of wounds, lesions, dermatiomyositis, vitiligo, psoriasis, lesions vaginal, facial and skin rejuvenation.



Investigación Científica Ex Vivo, Clínica y en Biología molecular

Recuento especifico de células mesenquimales para cultivo y estimulación in vivo en medula

Estudio de largo telomérico antes y después del implante celular

Estudio de dosis óptima para terapias microbiológicas con bacterias simbióticas y probióticas

Estudio de la memoria genética celular

Adaptación de células somáticas de DNA recombinante específicas de tejido para modulación de células mesenquimales autologas con nanofarmacología

Investigación con nanofarmacología y proceso de implantación molecular en tejido osteomuscular con grupos suizos e italianos

Desarrollo de exosomas específicos para tejido neuronal

Investigación en Bioingeniería

- Evaluación de los tratamientos realizados con ondas de choque, diamagnetoterapia, y estimulación transcraneal y vascular
- Resonancia Magnética Funcional Crónica para la evaluación de enfermedades y tratamientos
- Diseño de aguja ecogénica para punción lumbar con medición de presión
- Bioimpresión 3D de tejido de médula con células mesenquimales, nanofarmacología y exosomas
- Implantación de nanofarmacos por medio de ondas diamagnéticas

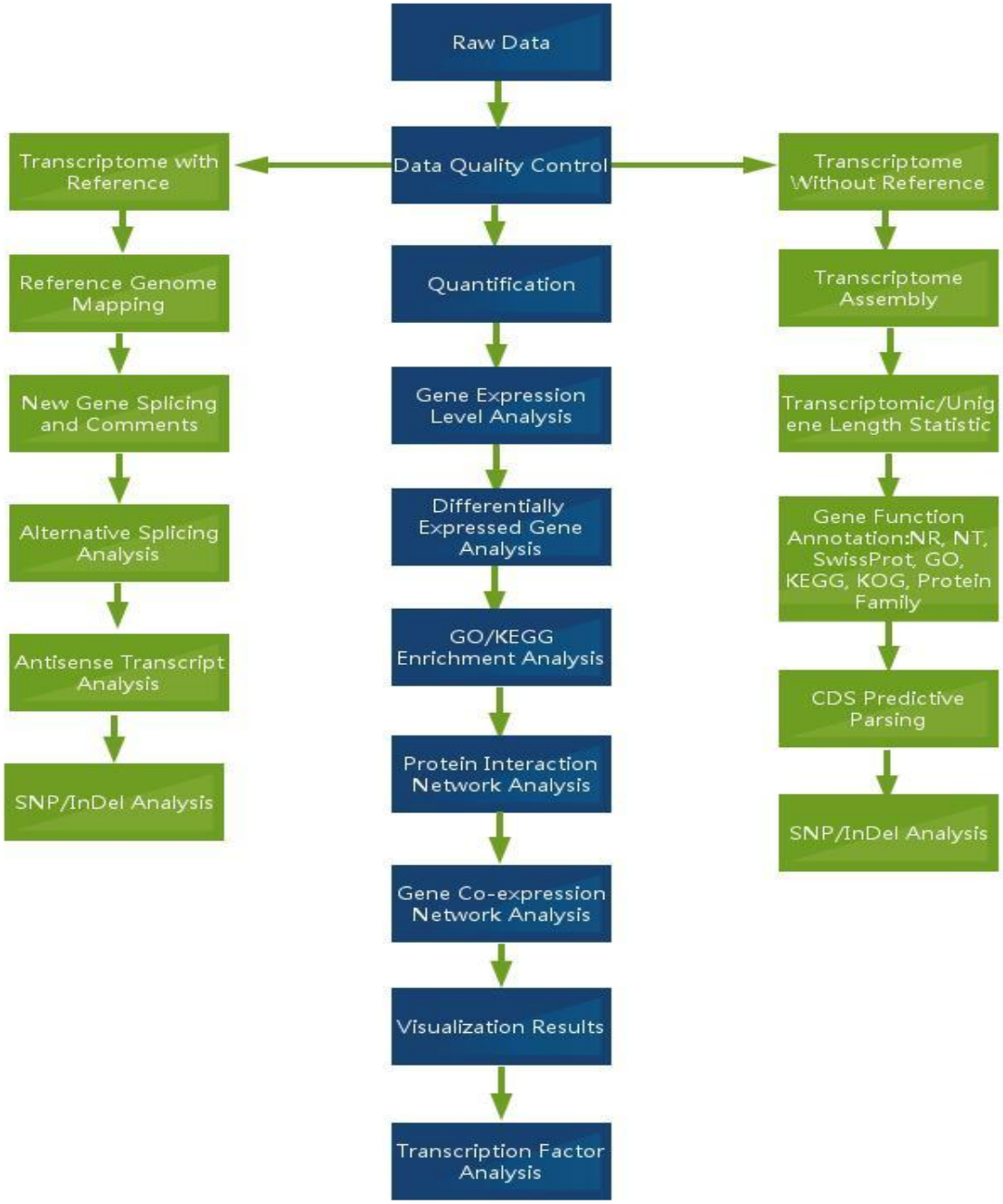
Changes in Cellular and Genetic Profile

OBJECTIVE

Identify changes in cell and genetic profile before and after performing diamagnetotherapy.

JUSTIFICATION.

Through this study, changes in the cellular and genetic profile that interfere with the associated changes in the course of the disease will be established



CELL REGENERATION
MEDICAL ORGANIZATION

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MEDICINA DE REGENER

GENERATION
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CellR4 2016; 4 (3): e2068

Metabolic surgery and beta cell regeneration in type-1 diabetes: a novel hypothesis

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Keywords: Incretin, Stem cells, Diabetes, Metabolic surgery.

Abstract

Bariatric or metabolic surgery provides superior short and long-term resolution rates in subjects with Type-2 Diabetes Mellitus (T2DM) when compared to intense medical therapy. These resolution rates are more evident for so called "stapling or bypass procedures" such as the Roux-Y Gastric Bypass (RYGB) and the bilio-pancreatic diversion (BPD) with duodenal switch (DS). A recent meta-analysis demonstrated that bariatric surgery, specifically RYGB, was able to decrease insulin requirements by more than 50% in subjects with Type-1 diabetes mellitus (T1DM). These results may encourage us to rethink the patho-physiologic mechanisms of T1DM and elucidate different potential treatment options that may result in insulin independence. In contrast to the most common T2DM, where β-cell dysfunction and insulin resistance play a key role, infusion of adult stem cells with immune-modulatory properties may be of assistance to restore self-tolerance and β-cell mass in T1DM, where autoimmunity is responsible for the selective loss of β-cells. Therefore, we propose a novel hypothesis were metabolic surgery in combination with adult stem cell therapy to promote β-cell regeneration may result in insulin independence in T1DM. To our knowledge and up to date such a hypothesis has not been proposed.

Background

Bariatric surgery is a term that defines a weight loss only procedure while metabolic surgery (i.e. diabetes surgery), comprises several gastrointestinal procedures that are used with the intent to treat diabetes mellitus and other metabolic dysfunctions[1]. Metabolic surgeries have historically included procedures such as RYGB, Sleeve gastrectomy and BPD with DS. However, in the U.S. the RYGB is still considered the preferred procedure to treat obese patients with T2DM.

Metabolic surgery has shown greater short and long-term resolution rates in subjects with Type-2 Diabetes Mellitus (T2DM) when compared to intense medical therapy in several prospective randomized clinical trials[2-4]. A meta-analysis by Ashrafian et al. demonstrated that RYGB was able to reduce insulin requirements by more than 50% in Type-1 diabetes mellitus (T1DM)[5].

Up to date, very few of the proposed mechanisms of resolution of T2DM after metabolic surgery in obese subjects have been elucidated. Therefore, it is intuitive to generalize some of these mechanistic pathways to other types of diabetes with a very different underlying patho-physiology such as T1DM. The significant metabolic results obtained with metabolic surgery should not be ignored as well as the benefits of intestinal bypass reconstructions on insulin sensitivity and pancreatic β-cell function that leads to insulin independence and the long-term remission of T2DM.

Hypothesis

Metabolic surgery (Roux-Y gastric bypass) in conjunction with intraperitoneal implantation of **A**dult **Stem** Cells to promote β-cell regeneration may provide insulin independence in T1DM (METASTEM study).

Basis of the Hypothesis

Type-2 diabetes is commonly associated with severe obesity. The main patho-physiologic characteristics of T2DM are peripheral insulin-resistance with

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Journal of Orthopedic Research and Therapy

Obando AFT, et al. J Orthop Res Ther 5: 1174.

DOI: 10.29011/2575-8241.001174

CELL REGENERATION MEDICAL ORGANIZATION

Review Article

Variable Low Frequency-High Intensity-Pulsed Electromagnetic Fields in the Treatment of Low Back Pain: A Case Series Report and a Review of the Literature

A.Felipe Torres Obando[1], J. Manuel Velasco[1], P. Romeo[2*]

[1]Cell Regeneration Medical Organization, Bogotá, Colombia

[2]Galeazzi Orthopedic Institute, Milano, Italy

[*]**Corresponding author:** Pietro Romeo, Galeazzi Orthopedic Institute, Milano, Italy

Citation: Obando AFT, Velasco JM, Romeo P (2020) Variable Low Frequency-High Intensity-Pulsed Electromagnetic Fields in the Treatment of Low Back Pain: A Case Series Report and a Review of the Literature. J Orthop Res Ther 5: 1174. DOI: 10.29011/2575-8241.001174

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Abstract

Low Back Pain (LBP) is one of the most frequent causes of people seeking medical treatments. Its tendency to become chronic implies high morbidity ratio and social costs excess. Conventional treatments include analgesic - anti-inflammatory and myorelaxant drugs while non-invasive rehabilitative programs, integrated by physical therapies, provide the reconditioning of the biomechanical disturbance at the origin of this disabling condition. Surgery is reserved for severe osteo, discogenic and neurologic concerns. In force of anti-inflammatory, analgesic and regenerative effects, the biophysical stimulation induced by Pulsed Electromagnetic Fields (PEMF) has attracted a certain interest for the safety and effectiveness in pain modulation, as well as in restoring the metabolic and functional impairment for muscle-skeletal disorders. Intending to evaluate the effects of a singular Low Intensity – High Energy- Pulsed Electromagnetic Fields (LI-HI-PEMF) device that supply variable self-regulating bandwidth of the electromagnetic frequencies (CTU Mega 20® Periso SA – Switzerland CE) we studied 18 subjects which underwent this type of treatment because of low- back pain. The patients were evaluated at the baseline, after the first week and at the end of the treatments for pain (NRS score) and the Revised Oswestry Disability Index which reflects the patient's ability to manage the everyday life.

The result showed that this LF-HI PEMF treatment (Diamagnetotherapy) provided significant pain reduction ($P < 0.05$ compared with baseline) and the improvement of the disability as resulting from the revised Oswestry disability percentage from the baseline value to 4 weeks after completing therapy ($P < 0.05$). Furthermore, we analysed the state of the art related to the non-invasive biophysical treatments of LBP. Additional studies as RCT may be necessary to validate the effectiveness of the LF-HI-PEMF.

Keywords: Chronic pain; Diamagnetotherapy; Low back pain; LF-HI-PEMF

Introduction

Because of the difficulties of categorizing LBP, the treatment can be challenging and this may depend on the causes, the time of appearance, the various intrinsic and extrinsic factors, the clinical features and the stage of the disease [1,2]. Furthermore, patient's clinical history and physical examination discern specific from non-specific LBP and it implies, respectively, wait and see-approach or deeper diagnostic analysis as well as consequential adequate treatments. This occurs for neurologic deficits, red flags or when these symptoms do not improve after 4 to 6 weeks from the onset [3]. Supervised exercise therapy and stabilization exercise programs have widely used in low back rehabilitation as a first-line treatment [4]. On their part, physical energies may support the rehabilitative programs acting on pain and exerting myorelaxant effects. With different levels of evidence, Transcutaneous Electrical Nerve Stimulation (TENS) [5], Low-Level Laser Therapy (LLLT), [6] and Capacitive-Resistive Diathermy Therapy (TECAR) [7] have been proposed in this regard.

Over time, a certain interest has been addressed to the biophysical stimulation induced by Low-Frequency PEMF. Their use, once approved by the U.S. Food and Drug Administration in 1979 for the treatment of delayed union of the fractures and pseudarthroses, fast spread towards different painful muscle-skeletal conditions and other types of disorders [8,9]. The rationale to employ PEMF would be based on anti-inflammatory effects

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Journal of Orthopedic Research and Therapy

Visconti S, et al. J Orthop Res Ther 6: 1186.

DOI: 10.29011/2575-8241.001186

CELL REGENERATION MEDICAL ORGANIZATION

Review Article

The Effects of a Novel Type of Shock Wave (Diamagnetic Shock Wave) in the Treatment of the Osteoarthrosis of the Thumb: A Case Series Study and a Look upon a Painless Mechanotherapy

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Citation: Visconti S, Torres F, Cuko G, Di Pardo F, Gosetti1 R, et al. (2021) The Effects of a Novel Type of Shock Wave (Diamagnetic Shock Wave) in the Treatment of the Osteoarthrosis of the Thumb: A Case Series Study and a Look upon a Painless Mechanotherapy. J Orthop Res Ther 6: 1186. DOI: 10.29011/2575-8241.001186

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Abstract

In therapeutic practice, Extracorporeal Shock Waves (ESWs) are known for their anti- inflammatory, antalgic and regenerative effects. For this reason, they are successfully applied in the majority of musculoskeletal disorders, including Osteoarthrosis (OA). We report a case series of 66 consecutive patients suffering from Thumb Osteoarthrosis (T-OA) classified in the II-III Eaton and Litter radiological stage and treated with a novel type of extracorporeal shock waves device (CTU-S-Wave). The machine generates mechanical shock waves by exploiting the repulsive phenomenon of diamagnetism which is based on the effects that High Intensity Low Frequency Pulsed Electromagnetic Fields (HI-LF-PEMF) exert on diamagnetic materials such as graphite, bismuth and others. From this repulsive effect the so-called diamagnetic shock wave originates. The primary outcome of our study was to evaluate the effectiveness of the ESWs on pain pre- and post-treatment. Then we evaluated the eventual discomfort for the patients in terms of perceived pain as consequence of the stimulation of the subchondral bone of the first carpo-metacarpal joint, attributable to the mechanical shock wave. All the patients reported a good compliance with the treatment, ameliorating the original pain due to the arthrosis ($p < 0,001$), while any discomfort has been reported. Diamagnetic shock wave demonstrated to be an effective and completely pain-free treatment.

Keywords: Diamagnetic; Extracorporeal shock waves; Mechanotherapy; Thumb osteoarthrosis

Introduction

T-OA is a multifactorial debilitating condition of the hand and represents the second most common site of OA, prevailing in women in post-menopausal age [1]. The clinical course is characterized by a progressive loss of grip function and it gradually impairs the performance of the hand in usual life activities [2]. In addition to genetic, metabolic, hormonal and biomechanical factors, this multifunctional joint can be subjected to the consequences of the overuse and functional constrains, consequently to the degenerative changes that usually occurs in osteochondral and periarticular capsule and ligaments. The term "T-OA" is referred to the first carpometacarpal joint (CMC-1), with or without the scapho-trapezial joint, more rarely to the scapho-trapezial one [3]. In addition to pain and variability of functional impairment, the severity of the disease is settled by the radiographic Eaton and Litter stages. With regard to the therapy, non-surgical procedures aim to slow down the anatomopathological damage and to delay the surgical options. Medications, orthoses, steroid or other substances injections and physical therapies have been proposed on this purpose, but none of these have been demonstrated to be superior to others [4]. Surgery, on its own, gives different results and retains controversial pros and cons both in terms of duration of the effect on pain and the functional recovery [5].

The rationale for the use of ESWs in bone starts from the first, successful, systematic application in delayed union and non-union of fractures [6] and naturally continues with the treatment of vascular, metabolic and degenerative diseases. Fundamental animal studies from Wang et coll. demonstrated how the treatment of Subchondral Bone (SB) was able to improve the structure of the Osteochondral Unit (OU) together, with positive changes in biomarkers of OA and of bone metabolism [7,8]. Furthermore,

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EC PULMONOLOGY AND RESPIRATORY MEDICINE

Research Article

CELL REGENERATION MEDICAL ORGANIZATION

Experience in the Respiratory Rehabilitation Program for the Treatment of Lung Interstitial Disease in Post-COVID-19 Pneumonia by Associating Low-frequency - High Intensity - Pulsed Electromagnetic Fields (Diamagnetotherapy): A Case Series Study

A Felipe Torres Obando[1], P Romeo[2]*, S Visconti[3], R Scudellari[3], J Manuel Velasco[1], N Adriana Soto[1], D Alejandro Vergara[1], F Bonomi[3] and M Benzoni[3]

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[2]*Istituto Ortopedico Galeazzi - Milano, Italy*

[3]*Casa di Cura Villa Gemma - Gardone Riviera, Italy*

***Corresponding Author:** P Romeo, Centre for Applied Research on Biophysical Stimulation of Musculoskeletal Tissues Istituto Ortopedico Galeazzi, Milano, Italy.

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Abstract

In severe acute respiratory syndrome (SARS-Cov-2), interstitial fibrosis is one of the possible sequels of the inflammatory damage of the lung induced by the viral disease. The usual treatment of this condition includes anti-fibrotic drugs, oxygen therapy and appropriate rehabilitative programs that intend to improve the lung performance and to ameliorate the quality of life in such patients. With the aforesaid purposes and on the bases of previous experience in treating a rare case of Interstitial Lung Fibrosis secondary to an overlapping autoimmune disease, we report the experience of the combined treatment consisting in pulmonary rehabilitation and the stimulation of the respiratory muscles by the use of Diamagnetotherapy, a technology exploiting the biological effects of the Low Frequency - High Intensity -Pulsed Electromagnetic Fields.

In this analytic observational study, from May to June 2020, ten patients with respiratory failure related to Covid-19 pneumonia already addresses to daily treatments for respiratory rehabilitation, underwent to the additional stimulation of the respiratory muscles 3 times/week for 2 weeks. The outcome of this combined treatment was to improve the dyspnea, a series of functional test battery (Barthel, SPPB, 6MWT, Tinetti, Borg, MRC) and Pulse Oximetry. As demonstrated by pre and post functional scores, all the treated patients reported statistically significative functional improvement.

The compliance with the diamagnetic treatment was well-tolerated without pain or adverse events.

Keywords: *Interstitial Lung Disease; Pulsed Electromagnetic Fields; Diamagnetotherapy; COVID-19 Pneumonia; Respiratory Rehabilitation Program*

Abbreviations

HI-LF-PEMF: High Intensity - Low-Frequency Pulsed Electromagnetic Fields; ILF: Interstitial Lung Fibrosis; ILD: Interstitial Lung Disease; ARDS: Acute Respiratory Distress Syndrome; SARS-Cov-2: Severe Acute Respiratory Syndrome Coronavirus 2; AIPO: Italian Association of Hospital Pulmonologists; AIR: Italian Respiratory Insufficiency Rehabilitation Association; BARTHEL: Patient Functional Assessment

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EC PULMONOLOGY AND RESPIRATORY MEDICINE

Case Report

Effects of High-Intensity Pulsed Electromagnetic Fields (HI-PEMF) in Interstitial Lung Fibrosis due to the Anti-Synthetase Syndrome Associated with Sjogren's Syndrome. A Case Report

A Felipe Torres Obando[1], J Manuel Velasco[1], N Adriana Soto[1], D Alejandro Vergara[1], S Milena Morales[1] and P Romeo[2]*

[1]*Cell Regeneration Medicine Organization, Bogotá, Colombia*

[2]*Centre for Applied Research on Biophysical Stimulation of Musculoskeletal Tissues, Istituto Ortopedico Galeazzi, Milano, Italy*

***Corresponding Author:** Pietro Romeo, Centre for Applied Research on Biophysical Stimulation of Musculoskeletal Tissues, Istituto Ortopedico Galeazzi, Milano, Italy.

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Abstract

In Anti-Synthetase Syndrome and Sjogren's Syndrome, pulmonary fibrosis (Interstitial Lung Disease) are a common source of lung failure, often exacerbated by the weakness of the respiratory muscles. Pulmonary rehabilitation procedures does not always improve the breathing performance and further or alternative therapeutic options would be necessary in this complaints. Pulsed Electromagnetic Fields have proven effective in various muscle-skeletal disorders and, on these bases, we report the results of their validity in the above mentioned conditions. From May to September 2019, a woman 50 years aged, in severe dyspnea due to a rare combination of both syndromes underwent a series of treatments with Diamagnetotherapy, a technology that exploits the therapeutic effects High Intensity-PEMF. During the treatments and afterwards, the patient reported the progressive improvement of dyspnea, on the oxygen saturation, muscle strength and life quality to date. This result may open suitable therapeutic chances in pulmonary fibrotic states, including in post-COVID 19.

Keywords: *Anti-Synthetase Syndrome; Sjogren's Syndrome; Interstitial Lung Disease; Pulsed Electromagnetic Fields; Diamagnetotherapy*

Abbreviations

ASS: Anti-Synthetase Syndrome; ILD: Interstitial Lung Disease; IMM: Idiopathic Inflammatory Myopathy; PM: Polymyositis; DM: Dermatomyositis; SS: Sjogren´s Syndrome; PEMF: Pulsed Electromagnetic Fields; LF-HI- PEMF: Low Frequency, High-Intensity Pulsed Electromagnetic Fields; CT: Computing Tomography

Introduction

In the ASS, a series of auto-antibodies, including anti-Jo-1, anti-PL-12, anti-PL-7, anti-OJ, anti-EJ, anti-KS, anti-Zo and Anti--YRS [1] contribute to typical clinical features of IIM (90%), PM and DM ("mechanic's hand"), non-erosive asymmetric arthritis, Raynaud's phenomenon and lung fibrosis [2,3]. SS affects the mucous membranes and causes the secretive insufficiency of the exocrine glands in the conjunctiva, oral, tracheobronchial and vaginal mucosa. Joint autoimmune diseases (overlapping syndromes) and progressive lung fibrosis (ILD), correlate with a high risk of respiratory failure [4,5]. CT scan images of lung fibrosis in the ASS, range of various degrees of interstitial fibrosis of ground-glass opacities [6,7] and in SS, non-septal linear opacities, interlobular septal thickening and single or multiple

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Pediatría

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Reportes de caso

Terapia de células madre mononucleares concentradas asociada a nanofarmacología mejora la fuerza muscular en paciente con Envejecimiento Precoz (Progeria no clásica)

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INFORMACIÓN DEL ARTÍCULO

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Envejecimiento precoz
Medicina de regeneración celular
Terapia con células madre
Síndromes Progeroides

Keywords:
Premature aging
Cell regeneration
Stem Cells therapy
Progeroid syndrome

RESUMEN

Introducción: el Envejecimiento Precoz (EP) es una enfermedad poco común. Se han descrito varios cuadros clínicos denominados Síndromes Progeroides (SP), entre los que se incluye la Progeria (P) y el EP, los cuales afectan diferentes órganos y sistemas, confiriendo aspectos sindromáticos característicos en estos pacientes. Hasta la fecha no existe una terapia definitiva que permita curar o tratar adecuadamente dicha enfermedad. Es una patología clasificada en las enfermedades huérfanas y raras, con pobre pronóstico; es relevante, entonces, exponer el caso de un paciente tratado con una respuesta favorable al tratamiento.
Caso clínico: paciente masculino natural y procedente de Bogotá (Colombia), con diagnóstico de SP (progeria no clásica) desde los nueve años, sometido a varios tratamientos sin presentar cambios significativos en el curso de su enfermedad. Consulta al Instituto Dr. Felipe Torres por pérdida progresiva de la fuerza muscular, caída permanente del cabello, osteoporosis y falla cardíaca. Se realiza tratamiento con factor neurotrófico derivado de cerebro (BDNF), interleukina 10 (IL-10) , anti interleukina 1 (Ant-IL1), -endorfina, terapia de células madre, DNA, RNA recombinante y neurotrofina 4. Esto logró una disminución significativa de su sintomatología inicial y detención del proceso degenerativo, sin la presencia de eventos adversos.
Conclusiones: El presente caso clínico sugiere que la terapia con células madre mononucleares concentradas asociadas a tratamiento nanofarmacológico, pueden ser una alternativa segura, novedosa y efectiva, para los pacientes con síndromes progeroides, que en la actualidad no disponen de ningún tratamiento realmente eficaz.

Therapy of concentrated mononuclear stem cells associated with Nanopharmacology improves muscle strength in the patient with Early Aging (non-classical Progeria)

ABSTRACT

The following article presents the clinical case of a patient diagnosed with early aging (progeroid syndrome). Disease of incidence worldwide (1/8 000 000 live births), with few and

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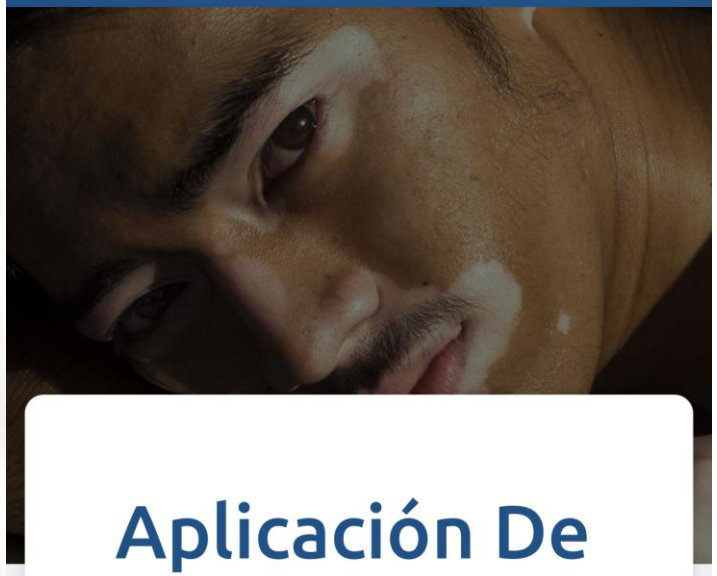
SOLCEMA
Sociedad Latinoamericana de Células Madre



Aplicación De Medicina Regeneración Celular A Paciente Con Vitíligo. Reporte De Caso

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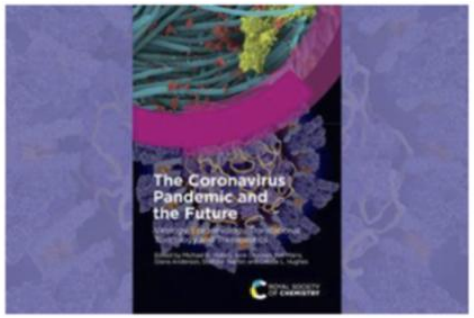
Publication of book chapter in the Royal Society of Chemistry

THE CORONAVIRUS PANDEMIC AND THE FUTURE

Knowledge from human relevant cell, tissue and mathematics-based methods as key tools for understanding COVID-19

BY SANDRA COECKE, AMALIA MUNOZ, VITO D'ALESSANDRO, FRANCESCA DE BERNARDI, PIETRO ROMEO, FELIPE TORRES, GEORGINA HARRIS AND SURAT PARVATAM | 20 MAY 2021

Diagnostic tools, preventive and curative strategies will be possible using knowledge from the new generation of in vitro and in silico methods and related technologies



Neuronal plasticity

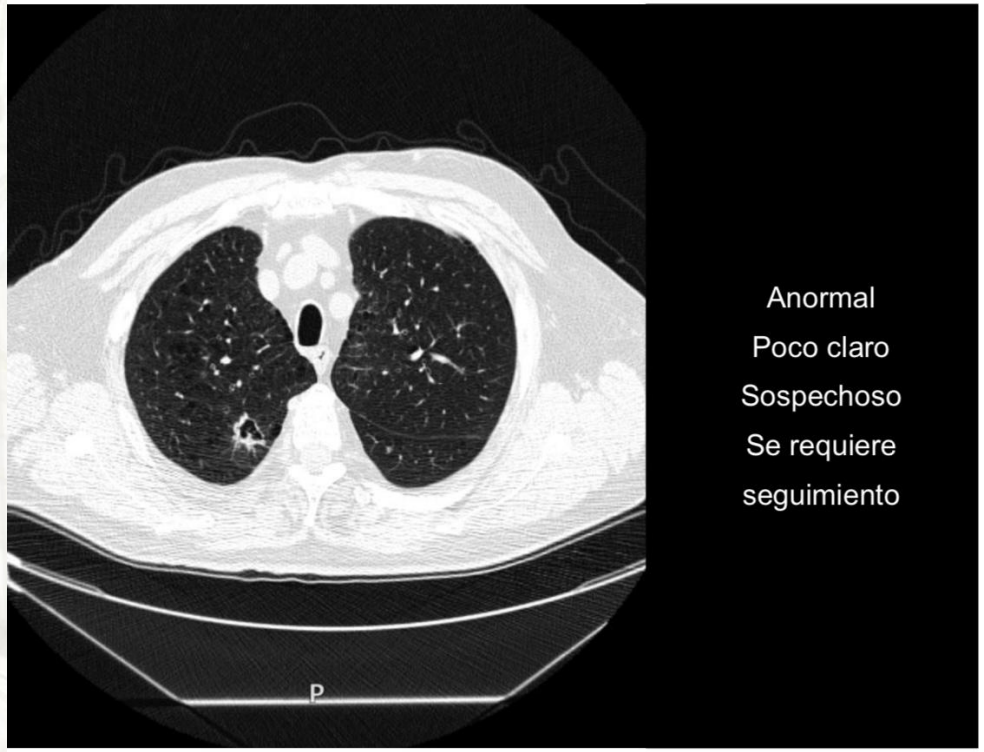
Changes in neuronal networks in response to training, injuries, rehabilitation, pharmacotherapy, electric or magnetic stimulation and genetic and stem cell therapies.

MARY L . DUMBOBY 2016

Functional Magnetic Resonance Imaging

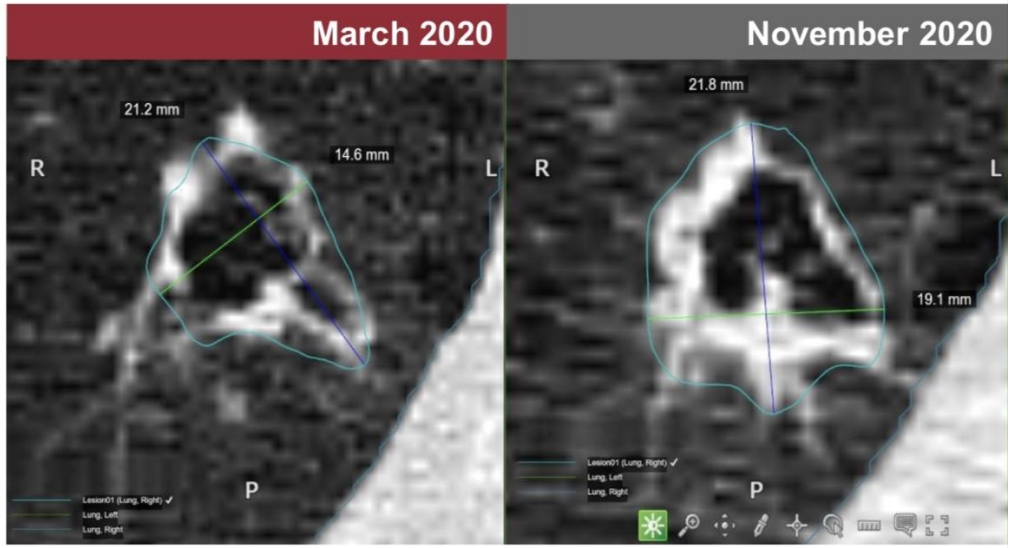
CELL REGENERATION
MEDICAL ORGANIZATION

Diagnóstico cualitativo hoy



Anormal
Poco claro
Sospechoso
Se requiere
seguimiento

Diagnóstico cuantitativo con Radiómica



Long & Short: **21.2 x 14.6mm**
Volume: **1.86mL**
Solid Density Vol: **0.59mL**
Texture Uniformity: **151.2**

Long & Short: **21.8 x 19.1mm**
Volume: **4.70mL**
Solid Density Vol: **3.17mL**
Texture Uniformity: **217.9**

Más de 2300 características radiómicas/biomarcadores

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Usos radiómicos

Apoya el desarrollo de terapias emergentes y enfoques de evaluación no invasivos, rentables, predictivos y personalizados

European Commission
Directorate General Joint Research Centre

DECODING DEPRESSION:

a Life Course Exploration of Vulnerabilities through Transdisciplinary Inquiry

SCIENCE FOR POLICY
SCIENCE FOR PEOPLE

Fraunhofer SCAI
UMG
UNIVERSITÄT BONN
DAAD Deutscher Akademischer Austauschdienst German Academic Exchange Service
DIGITAL science

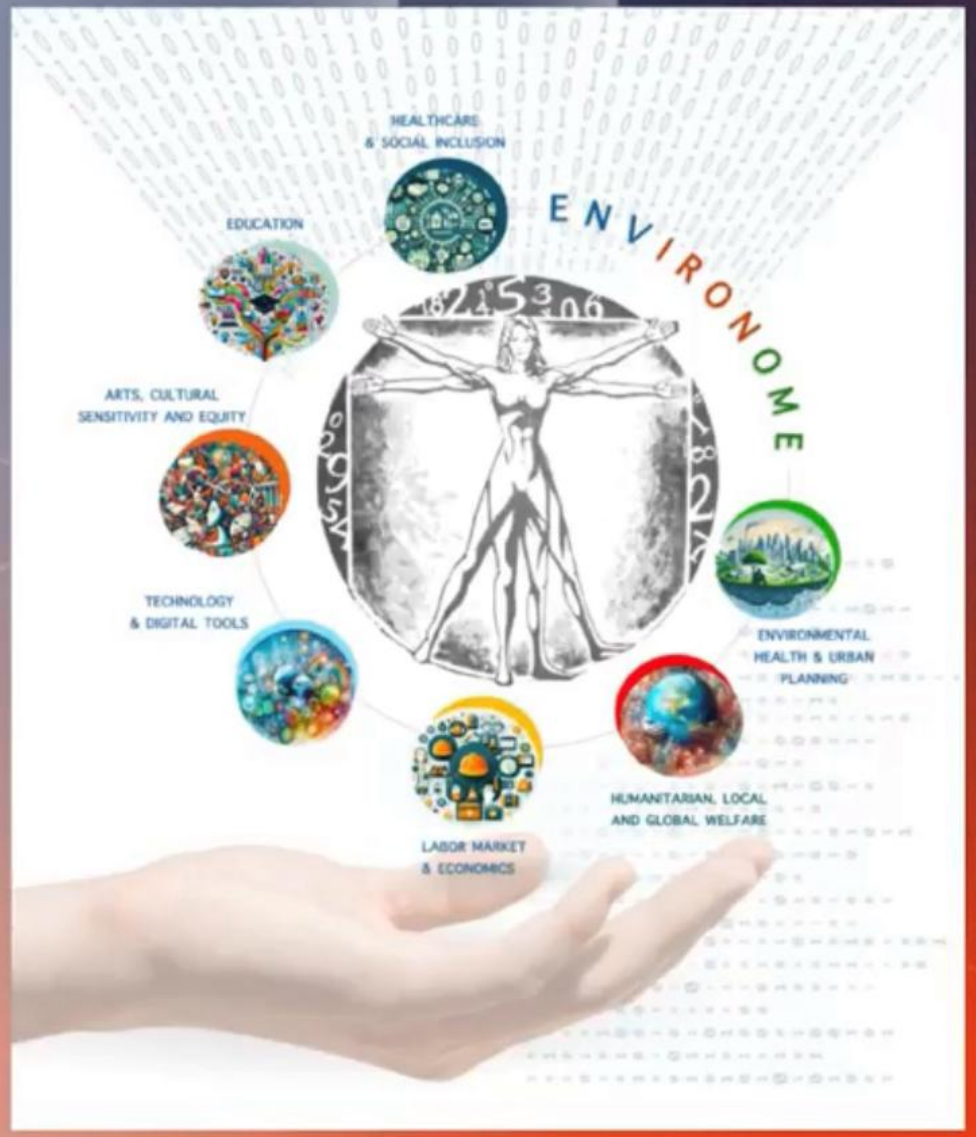
Given these complexities, we focused on exploring

INNOVATIVE CO-CREATIVE AND TRANSDISCIPLINARY APPROACHES

to decode the

ENVIRONOME

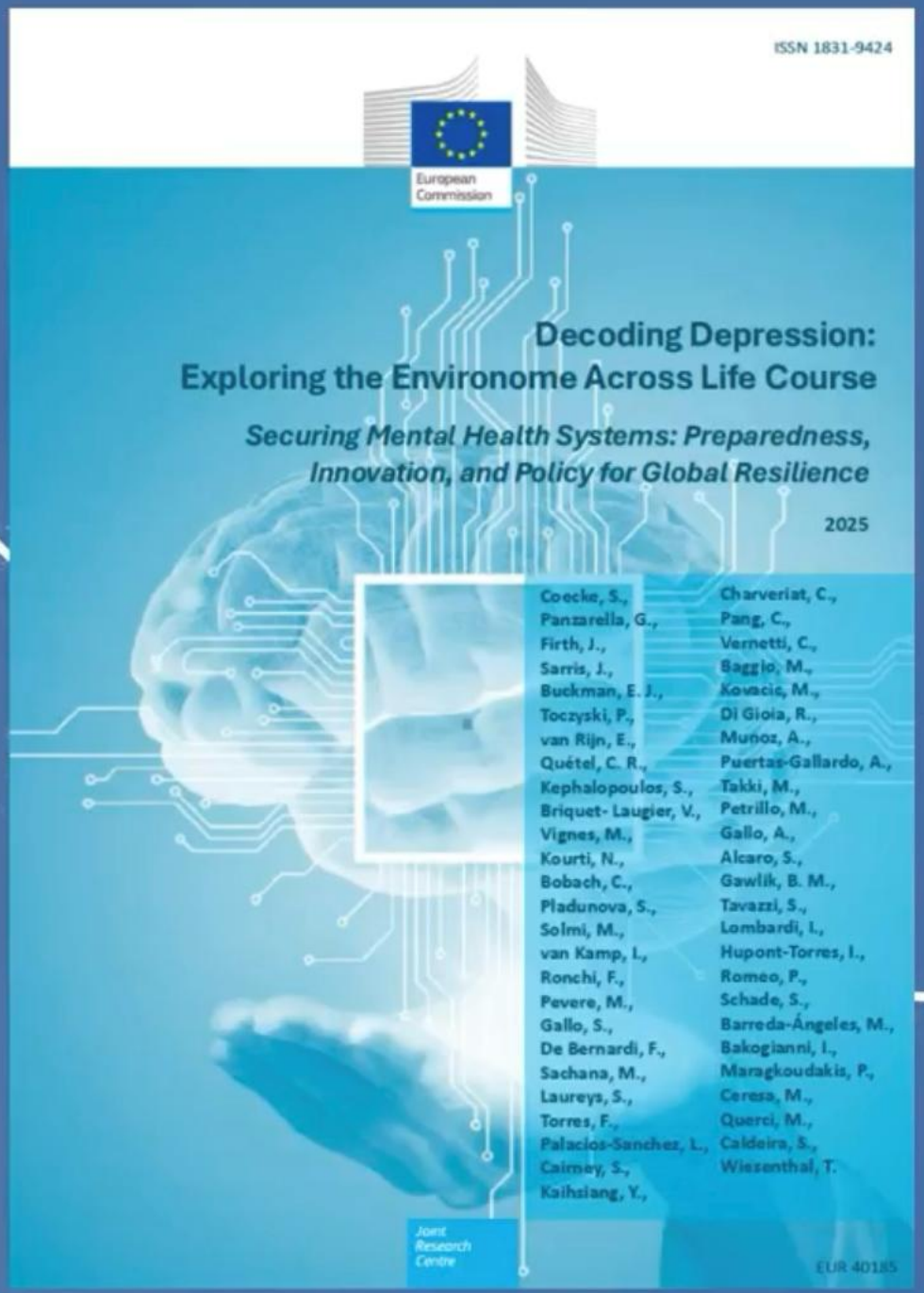
nature of depression and its multifaceted influences.



JRC SCIENCE FOR POLICY REPORT

"Decoding Depression: Exploring the Environome Across Life Course"

Securing Mental Health Systems: Preparedness, Innovation, and Policy for Global Resilience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European Commission

Decoding Depression:
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Securing Mental Health Systems: Preparedness, Innovation, and Policy for Global Resilience

2025

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Joint Research Centre

EUR 40185

SCIENTIFIC PAPER

Environome-Driven Depression: Transdisciplinary Insights and Policy Recommendations from the InDepDash Platform

submitted Peer Reviewed Scientific Paper

Environome-Driven Depression: Transdisciplinary Insights and Policy Recommendations from the InDepDash Platform

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Joshua E. J. Buckman [4*†], Piotr Toczyski [5†],
Elaine van Rijn [11], Christophe R. Quétel [6 †], Stylianos Kephalopoulos [11], Maguelone Vignes [1],
Naouma Kourti [1], Claudia Bobach [7], Safiya Pladunova [7], Marco Solmi [8],
Irene van Kamp [9], Francesca Ronchi [10], Margherita Pevere [11],
Stefania Gallo [12], Francesca De Bernardi [12],
Veronique Briquet-Laugier [13], Magdalini Sachana [14], Steven Laureys [15], Felipe Torres [16],
Leonardo Palacios-Sanchez [17], Scott Cairney [18], Kaihsiang Morton Yo [19],
Celine Charveriat [20], Camilla Pang [21], Christine Vernetti [1], Marianna Baggio [22], Matija Kovacic [1],
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Alessandro Gallo [24], Stefano Alcaro [24], Bernd Gawlik [1],
Simona Tavazzi [1], Italo Lombardi [1], Isabelle Hupont-Torres [25], Mauro Petrillo [26],
Pietro Romeo [27], Miguel Barreda-Ángeles[1], Ioanna Bakogianni [1],
Petros Maragkoudakis [1], Mario Ceresa [1], Maddalena Querci [1], and Tobias Wiesenthal [1]

InDepDash focuses on improving current practices and catalyzing depression prevention across the life-course.

Let's work together to build a healthier, more equitable world - where mental health is a universal right.

#DareToCare

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Decoding Depression: Exploring the Environome Across Life Course

Securing Mental Health Systems: Preparedness, Innovation, and Policy for Global Resilience

2025

Dr. Felipe Torres

MEDICINA DE REGENERACIÓN CELULAR

GENERATION

AL ORGANIZATION

Cell Regeneration
Medical Organization

CELL REGENERATION
MEDICAL ORGANIZATION

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JUSTIFICATION.

Through the case studies, the different physiological and functional progress of patients with pathologies such as:

1. Muscular dystrophy.
2. Spastic Cerebral Palsy.
3. Dyskinetic Cerebral Palsy.
4. Spinal trauma.
5. Pulmonary fibrosis secondary to Sjogren's syndrome.
6. Glomerulonephritis.
7. Motor neuron disease.
8. Parkinson's disease.
9. Ataxia.

Genetic, Biochemical and Physiological Processes

PERISO SA
technology that evolves

GRAZIE

CELL REGENERATION
MEDICAL ORGANIZATION

GRACIAS