

Influencia de las células madre mesenquimales en la recuperación de oligodendrocitos sometidos a estrés oxidativo

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ÍNDICE

ÍNDICE DE MATERIAS	iii
ÍNDICE DE FIGURAS	x
ÍNDICE DE TABLAS	xii
ABREVIATURAS	xiii

ÍNDICE DE MATERIAS

I. JUSTIFICACIÓN DEL ESTUDIO	1
II. INTRODUCCIÓN	5
II.1. LAS CÉLULAS DE LA GLÍA Y LA IMPORTANCIA DE LOS OLIGODENDROCITOS	7
II.1.1. La mielina y su relevancia en el sistema nervioso central	9
II.2. ENFERMEDADES DESMIELINIZANTES	12
II.2.1. Lesión traumática de médula espinal	12
II.2.2. La esclerosis múltiple	13
II.2.3. La enfermedad de Alzheimer	15
II.2.4. La enfermedad de Parkinson	16
II.3. ESTRÉS OXIDATIVO	18
II.3.1. Moléculas y radicales libres	18
II.3.2. La peroxidación lipídica	19
II.3.3. Sistemas de defensa antioxidante	22
II.3.3.1. Sistemas antioxidantes enzimáticos ..	22
II.3.3.2. Sistemas antioxidantes no enzimáticos	24

II.4. GLUTATIÓN	28
II.4.1. Síntesis y degradación	28
II.4.2. Estrategias terapéuticas para el incremento de los niveles de GSH	30
II.4.2.1. Compuestos inductores de la síntesis de GSH	30
II.4.2.2. Interacciones farmacológicas que mitigan los déficit de GSH	33
II.4.2.3. Nuevas estrategias tecnológicas portadoras de GSH	34
II.5. CÉLULAS MADRE COMO TERAPIA REGENERATIVA	36
II.5.1. Concepto y clasificación	36
II.5.1.1. Células Madre Embrionarias (ESC)	37
II.5.1.2. Células Madre Fetales	37
II.5.1.3. Células Madre Adultas (ASC)	38
II.5.2. MSCs derivadas del Tejido Adiposo	40
II.5.3. Medios acondicionados por MSCs	43
III. HIPÓTESIS Y OBJETIVOS	45
IV. MATERIAL Y MÉTODOS	49
IV.1. MATERIAL Y TÉCNICAS	51
IV.1.1. Células	51
IV.1.1.1. Línea celular de oligodendroglioma humano (HOG, <i>Human OligodendroGlioma</i>)	51
IV.1.1.2. Células madre mesenquimales derivadas de tejido adiposo (AMSC, <i>Adipose-derived mesenchymal Stem Cell</i>)	52

IV.1.2. Cultivos celulares.....	53
IV.1.2.1. Descongelación y mantenimiento celular	53
IV.1.2.2. Congelación de las células	55
IV.1.2.3. Siembra de la suspensión celular en placa	55
IV.1.2.4. Proceso de diferenciación de células HOG	56
IV.1.2.5. Obtención de medio acondicionado por AMSCs	57
IV.1.3. Técnicas de experimentación	58
IV.1.3.1. Determinación de la proliferación celular	58
IV.1.3.2. Determinación de los niveles intracelulares de GSH	58
IV.1.3.3. Determinación de los niveles intracelulares de ROS	59
IV.1.3.4. Determinación de la capacidad antioxidante total	59
IV.1.3.5. Determinación de los niveles de apoptosis	61
IV.1.3.6. Determinación de la expresión génica	62
IV.1.3.7. Marcaje de la proteína básica de la mielina (MBP, <i>Myelin Basic Protein</i>) por inmunofluorescencia	64
IV.2. PROCEDIMIENTOS EXPERIMENTALES	66
IV.2.1 Proceso de diferenciación de las células HOG	66
IV.2.2. Estudio del efecto del proceso de diferenciación sobre las células HOG	66

IV.2.2.1. Efecto del proceso de diferenciación sobre la proliferación celular	66
IV.2.2.2. Efecto del proceso de diferenciación sobre la síntesis de MBP	67
IV.2.3. Efecto de la oxidación sobre las células HOGd	68
IV.2.3.1. Efecto de la oxidación sobre la viabilidad de las HOGd	69
IV.2.3.2. Efecto de la oxidación sobre los niveles intracelular de ROS y GSH de las células HOGd	69
IV.2.3.3. Efecto de la oxidación sobre la apoptosis, capacidad antioxidante y expresión génica de las HOGd	70
IV.2.4. Efecto modulador de las AMSCs sobre el daño oxidativo	71
IV.2.4.1. Efecto modulador del co-cultivo de AMSCs sobre la proliferación de las HOGd en condiciones de cultivo estándar y sometidas a estrés oxidativo	71
IV.2.4.2. Capacidad antioxidante del medio acondicionado por SD-AMSCs	72
IV.2.4.3. Efecto modulador del medio acondicionado por SD-AMSCs sobre las HOGd sometidas a estrés oxidativo	73
IV.2.5. Efecto modulador de la NAC sobre las HOGd sometidas a estrés oxidativo	75
IV.2.5.1. Efecto modulador de la NAC sobre los niveles intracelulares de ROS en las HOGd	75
IV.2.5.2. Efecto modulador de la NAC sobre los niveles intracelulares de GSH en las HOGd	76

IV.2.5.3. Efecto modulador de la NAC sobre la proliferación de las HOGd	76
IV.2.6. Efecto modulador de la combinación del MAd y la NAC sobre las células HOGd sometidas a estrés oxidativo	77
IV.2.6.1 Efecto modulador de la combinación del MAd suplementado con NAC sobre los niveles intracelulares de ROS en las HOGd	77
IV.2.6.2. Efecto modulador de la combinación del MAd suplementado con NAC sobre los niveles intracelulares de GSH en las HOGd	78
IV.2.6.3. Efecto modulador del MAd suplementado con NAC sobre la proliferación en las HOGd	78
IV.3. ANÁLISIS ESTADÍSTICO	79
V. RESULTADOS	83
V.1. ESTUDIO DEL EFECTO DE LA DIFERENCIACIÓN SOBRE LAS CÉLULAS HOG	85
V.1.1. Efecto del proceso de diferenciación sobre el fenotipo de las células HOG	85
V.1.2. Efecto de la diferenciación sobre la actividad proliferativa	87
V.2. ESTUDIO DEL EFECTO DEL ESTRÉS OXIDATIVO SOBRE LAS HOGd	89
V.2.1. Efecto de la exposición al H ₂ O ₂ sobre la viabilidad celular	89
V.2.2. Efecto de la exposición al H ₂ O ₂ sobre los niveles intracelulares de ROS	90

V.2.3. Efecto de la exposición al H ₂ O ₂ sobre los niveles intracelulares de GSH	92
V.2.4. Efecto de la exposición al H ₂ O ₂ sobre el porcentaje de apoptosis en la población celular	93
V.2.5. Efecto de la exposición al H ₂ O ₂ sobre la capacidad antioxidante celular total	95
V.2.6. Efecto de la exposición al H ₂ O ₂ sobre la expresión de los genes de COX-2, NF-κB, IL-1β y TGF-β1	96
V.3. ESTUDIO DEL EFECTO MODULADOR DE LAS AMSCs SOBRE LAS CÉLULAS HOGd	99
V.3.1. Efecto del co-cultivo con AMSCs	99
V.3.1.1. Efecto del co-cultivo con AMSCs sobre la proliferación de HOGd en condiciones estándar	99
V.3.1.2. Efecto del co-cultivo con AMSCs sobre la proliferación de células HOGd sometidas a estrés oxidativo	101
V.3.2. Efecto del medio acondicionado por AMSCs sobre las células HOGd	103
V.3.2.1. Capacidad antioxidante del medio acondicionado por AMSCs	103
V.3.2.2. Efecto del medio acondicionado sobre las células HOGd en cultivo estándar	105
V.3.2.3. Efecto del medio acondicionado sobre las células HOGd sometidas a estrés oxidativo	107
V.4. ESTUDIO DEL EFECTO MODULADOR DE LA NAC SOBRE LAS CÉLULAS HOGd	114
V.4.1. Efecto de la NAC sobre HOGd en cultivo estándar	114

V.4.2. Efecto de la NAC sobre HOGd sometidas a estrés oxidativo	116
V.5. ESTUDIOS DEL EFECTO MODULADOR DEL MEDIO ACONDICIONADO POR AMSCs COMBINADO CON NAC SOBRE LAS CÉLULAS HOGd	119
V.5.1. Efecto del medio acondicionado suplementado con NAC sobre HOGd en cultivo estándar	119
V.5.2. Efecto del medio acondicionado suplementado con NAC sobre HOGd sometidas a estrés oxidativo	121
VI. DISCUSIÓN	125
VII. CONCLUSIONES	143
VIII. BIBLIOGRAFÍA	147

ÍNDICE DE FIGURAS

Figura 1. Esquema de la iniciación y propagación de la peroxidación lipídica	20
Figura 2. Cultivo de células HOG en frasco de 75 cm ²	52
Figura 3. Cultivo de AMSC en frasco de 75 cm ²	53
Figura 4. Imágenes de células HOG fijadas y con marcaje de la MBP	86
Figura 5. Tasa proliferativa de las células HOGnd y HOGd	88
Figura 6. Viabilidad celular de las HOGd sometidas a concentraciones crecientes de H ₂ O ₂	90
Figura 7. Niveles intracelulares de ROS en HOGd sometidas a concentraciones de 0.1 mM, 0.25 mM, 0.5 mM y 1 mM de H ₂ O ₂	91
Figura 8. Niveles intracelulares de GSH en HOGd sometidas a concentraciones de 0.25 mM y 1 mM de H ₂ O ₂	92
Figura 9. Imagen de citometría de flujo relativa al efecto del H ₂ O ₂ sobre el porcentaje de apoptosis	93
Figura 10. Efecto de la oxidación sobre la apoptosis en las células HOGd	94
Figura 11. Capacidad antioxidante de las células HOGd oxidadas	95
Figura 12. Niveles de expresión relativos al control (Log ₂) de los genes de COX-2, NF-κB, IL-1β y TGF-β1	97
Figura 13. AMSCs en co-cultivo mantenidas en condiciones estándar	99
Figura 14. Imágenes de microscopía de contraste de fases en células HOGd en cultivo estándar y en co-cultivo con AMSCs. Gráfica de proliferación	100
Figura 15. AMSCs en co-cultivo con células HOGd oxidadas	101
Figura 16. Imágenes de microscopía de contraste de fases en células HOGd oxidadas y en co-cultivo con AMSCs. Gráfica de proliferación	102

Figura 17. Capacidad antioxidante del medio de crecimiento de AMSCs, DMEM + GlutaMAX™-I y MA	104
Figura 18. Efecto del MAd sobre HOGd en cultivo estándar	106
Figura 19. Niveles intracelulares de ROS en HOGd sometidas a estrés oxidativo y tratadas con MAd	107
Figura 20. Niveles intracelulares de GSH en HOGd sometidas a estrés oxidativo y tratadas con MAd	108
Figura 21. Capacidad antioxidante total de HOGd oxidadas tratadas con MAd	110
Figura 22. Imagen de microscopía de fluorescencia donde se observa la proteína MBP y los núcleos en HOGd oxidadas y tratadas con MAd	110
Figura 23. Proliferación de HOGd sometidas a estrés oxidativo en tratamiento con MAd	110
Figura 24. Efecto del tratamiento con MAd sobre el porcentaje de apoptosis en células HOGd sometidas a estrés oxidativo	111
Figura 25. Niveles de expresión relativos al control (Log_2) de los genes de COX-2, NF- κ B, IL-1 β y TGF- β 1 en células HOGd oxidadas y tratadas con MAd	113
Figura 26. Efecto de la NAC sobre HOGd en cultivo estándar	115
Figura 27. Niveles intracelulares de ROS en HOGd con 5 mM de NAC y sometidas a estrés oxidativo	116
Figura 28. Niveles intracelulares de GSH en HOGd tratadas con 5 mM de NAC	117
Figura 29. Proliferación de células HOGd sometidas a estrés oxidativo y tratadas con 5 mM de NAC	118
Figura 30. Efecto del MAd + NAC sobre HOGd en cultivo estándar	120
Figura 31. Niveles intracelulares de ROS en HOGd oxidadas y tratadas con MAd suplementado con NAC	121

Figura 32. Niveles intracelulares de GSH en HOGd oxidadas y tratadas con MAd suplementado con NAC	122
Figura 33. Proliferación de células HOGd oxidadas y tratadas con MAd suplementado con NAC	123

ÍNDICE DE TABLAS

Tabla 1. Relación de compuestos que conforman el medio diferenciador	57
Tabla 2. Reactivos que componen el <i>mix</i> de retrotranscripción	63

ABREVIATURAS

AAPH: 2,2'-azobis [2-amidino-propano] diclorhidrato

AMP: Adenosín monofosfato

AMSC: *Adipose tissue derived Mesenchymal Stem Cell*, Célula Madre Mesenquimal de tejido Adiposo

ASC: *Adult Stem Cell*, Célula Madre Adulta

BDNF: *Brain Derived Neurotrophic Factor*, Factor Neurotrófico Derivado del Cerebro

bFGF: *basic Fibroblast Growth Factor*, Factor básico de Crecimiento de Fibroblastos

BHE: Barrera Hemato-Encefálica

BMMSC: *Bone Marrow-derived Mesenchymal Stem Cell*, Célula Madre Mesenquimal de Médula Ósea

cDNA: Ácido desoxirribonucleico complementario

CH₂: Grupo metilo

CNPasa: 2'-3'-nucleótido cíclico-3'-fosfodiesterasa

CoQH₂: Ubiquinol

COX-2: Ciclooxigenasa-2

CS-GSH: Quitosano-Glutatión

Cu²⁺: Cobre reducido

Cu³⁺: Cobre oxidado

CuZnSOD: Cobre-Zinc Superóxido Dismutasa

Cys: Cisteína

Cys-Gly: Cisteinil-Glicina

Cys-SOH: ácido sulfénico

DAPI: 4-6-diamidino-2-fenil-indol

DMSO: Dimetilsulfóxido

dNTP: Desoxinucleotido trifosfato

EDTA: Ácido Etilendiaminotetraacético

EM: Esclerosis Múltiple

EP: Enfermedad de Parkinson

ESC: *Embryonic Stem Cell*, Célula Madre Embrionaria

Fe²⁺: Hierro reducido

Fe³⁺: Hierro oxidado

FGF: *Fibroblast Growth Factor*, Factor de Crecimiento de Fibroblastos

γ-GCS: gamma-Glutamil Cisteinil Sintetasa

γ-GT: gamma-Glutamil Transpeptidasa

GDE: *Glutathione Diethyl Ester*, Glutación Dietil Éster

GDNF: *Glial-cell Derived Neurotrophic Factor*, Factor Neurotrófico Derivado de Célula Glial

GEE: *Glutathione Ethyl Ester*, Glutación Mono Etil Éster

Glu: Glutamato

Gly: Glicina

GPx: Glutación Peroxidasa

GR: Glutación Reductasa

GS: Glutación Sintetasa

GSH: Glutación reducido

GSSG: Glutación oxidado

4-HNE: 4-hidroxinonenal

H₂DCF-DA: 2-7-diclorofluoresceína diacetato

H₂O DEPC: Agua ultra pura tratada con dietil pirocarbonato

H₂O₂: Peróxido de hidrógeno

HEPES: Ácido 4-(2-hidroxietil)-1-piperacinoetanosulfónico

HGF: *Hepatocyte Growth Factor*, Factor de Crecimiento Hepatocitario

HOG: *Human OligodendroGlioma*, Línea celular de OligodendroGlioma Humano

HOGd: Células HOG diferenciadas

HOGnd: Células HOG no diferenciadas

HSC: *Hematopoietic Stem Cell*, Célula Madre Hematopoyética

IBMX: 3-isobutil-1-metilxantina

IBU: Ibuprofeno

IC₅₀: Concentración Inhibitoria del 50% de la población

IFATS: *International Federation for Adipose Therapeutics and Science*

IGF: *Insulin-like Growth Factor*, Factor de Crecimiento similar a la Insulina

IL-1 β : Interleucina-1 Beta

IL-6: Interleucina-6

KGF: *Keratinocyte Growth Factor*, Factor de Crecimiento de Queratinocito

K_m: Constante de afinidad

L·: Ácido graso radical

LD: Levodopa

LD-GSH: Levodopa-Glutatión

LO·: Radical alcoxil lipídico

LOO·: Radical peroxil lipídico

mBCl: Monoclorobimano

MBP: *Myelin Basic Protein*, Proteína Básica de la Mielina

MA: Medio Acondicionado

MAd: Medio Acondicionado diferenciador

Md: Medio diferenciador

MnSOD: Manganese Superóxido Dismutasa

mRNA: Ácido Ribonucleico mensajero.

MSC: *Mesenchymal Stem Cell*, Célula Madre Mesenquimal

NAC: N-acetilcisteína

NADPH: Nicotinamida Adenina Dinucleótido Fosfato

NF- κ B: *Nuclear Factor-kappa B*, Factor Nuclear-kappa B

NGF: *Nerve Growth Factor*, Factor de Crecimiento Nervioso

NP: Nanopartícula

O₂^{-•}: Radical superóxido

OH[•]: Radical hidroxilo

ORAC: *Oxygen Radical Absorbance Capacity*, Capacidad de Absorbancia de Radicales del Oxígeno

5-OPasa: 5-oxoprolinasa

OTZ: L-2-oxotiazolin-4-carboxilato

PBS: *Phosphate Buffered Saline*, Tampón Fosfato Salino

PDL: Bromhidrato de poli-D-lisina

PGE2: Prostaglandina E₂

Redox: Oxido-Reducción

ROS: *Reactive Oxygen Species*, Especies Reactivas del Oxígeno

rpm: Revoluciones por minuto

RT-qPCR: *Real Time-quantitative Polymerase Chain Reaction*, Reacción en Cadena de la Polimerasa Cuantitativa y en Tiempo Real

SBF: Suero Bovino Fetal

SD-AMSC: *Serum Deprived-Adipose-derived Mesenchymal Stem Cell*, Célula Madre Mesenquimal procedente de tejido Adiposo-Privada de Suero

SGIker: Servicios Generales de Investigación, Ikerkuntzarako Zerbitzu Orokorrak (UPV/EHU)

SH: Grupo tiol

SNC: Sistema Nervioso Central

SNP: Sistema Nervioso Periférico

SOD: Superóxido Dismutasa

T₃: Triiodotironina

TGF- β : *Transforming Growth Factor-Beta*, Factor de Crecimiento Transformante-Beta

TNF- α : *Tumor Necrotic Factor-Alpha*, Factor de Necrosis Tumoral-Alfa

Toc-O \cdot : Radical tocoferol

UA: Unidades Arbitrarias

VEGF: *Vascular Endothelial Growth Factor*, Factor de Crecimiento Endotelial Vascular

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