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remyelination in
multiple sclerosis (MS).
A number of research
frontiers still exist in
this challenging
disease. The cause
remains elusive,
preventing
breakthroughs in its
prevention.

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presents an up-date on the translational potential of promoting remyelination in multiple sclerosis (MS). A number of research frontiers still exist in this challenging disease.

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Article (PDF Available)
Page 7/30

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Multiple Sclerosis, DOI
10.1007/978-1-4614-2
218-1_10,

(PDF) Myelin Repair and Neuroprotection in Multiple Sclerosis

While focal myelination
by transplanted cells is
easy to achieve, more
global repair has also
been documented in
the myelin mutants.

Studies of
transplantation into the

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spinal cord of the sh pup showed more extensive myelination across the spinal cord at the grafting site and more rostral and caudal myelination to it (up to 20 mm) than in prior rodent studies (Archer et al. 1997) (Fig. 5.3).

Exogenous Cell Myelin Repair and Neuroprotection in

...

Specifically, AMPK has

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been studied with respect to myelin repair and neuroprotection in EAE. Data suggest that the differentiation of OPCs into myelin-forming OLs is essential for myelin repair and maintenance during CNS demyelinating diseases. Our recent studies established that AMPK activation by 5-aminoimidazole-4-carboxamide-1- β -D-ribofuranoside (AICAR)

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or metformin
attenuates EAE disease
and provides neuro-
protection via
immunomodulation
and protection of the
blood brain barrier
(BBB).

Neuroprotection and Myelin Repair Mechanisms in Multiple ...

Strategies for
neuroprotection and
myelin repair / Patrizia
Casaccia. Author:

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Neuroprotection
Casaccia, Patrizia.

National Institutes of
Health (U.S.),

Publisher: Abstract:

(CIT): Our ability to
move, think, perceive,
is dependent on a
timely transmission of
information among
specialized cells called
neurons.

NIH VideoCast - Strategies for Neuroprotection and Myelin ...

The development of

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Neuroprotection

neuroprotective
therapies is a sought-
after goal. By
screening

combinatorial chemical
libraries using in vitro
assays, we identified
the small molecule
BN201 that promotes
the survival of cultured
neural cells when
subjected to oxidative
stress or when
deprived of trophic
factors. ...

Axonal and Myelin

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Neuroprotection in Multiple Sclerosis

Neuroprotection by the Peptoid BN201 in ...

Remyelination can occur in the CNS, restoring axonal myelin sheaths, aiding nerve conduction and metabolic support as a result. Several complementary lines of evidence show that remyelination can thus confer neuroprotection. Evidence from human neuropathology and experimental studies

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Remyelination in multiple sclerosis: from basic science to ...

Remyelination for neuroprotection A logical corollary of the myelin-associated maintenance of axonal integrity is that restoring myelin to demyelinated axons will reduce axonal loss.

Neuroprotection and repair in multiple

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sclerosis | Nature ...

But even beyond that, the vision of Myelin Repair Foundation and the method that they are proving out to get drugs to people faster is a really big vision that is important for a lot of unmet medical needs and it is exciting to be a part of it.”

Sharon Wienbar,
Managing Partner,
Scale Venture Partners
“If you just leave it to
basic

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Myelin Repair Foundation

Myelin repair is a desired therapeutic approach for a variety of demyelinating or dysmyelinating disorders that can occur either during development of the CNS or in adulthood. A successful remyelination program would not only promote recovery of action potential

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propagation in affected axons, but also attenuate further axonal damage in white ...

Myelin Repair Strategies: A Cellular View

Current therapies are focused on the treatment of inflammation; however, there is an urgent need for innovative therapies promoting neuroregeneration,

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particularly myelin
repair. It is

demonstrated that
testosterone can act
through neural
androgen receptors
and several clinical
observations
stimulated an interest
in the potential
protective effects of
testosterone treatment
for MS.

The TOTEM RRMS (Testosterone Treatment on

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The progestin compound preferably comprises 16-methylene-17 α -acetoxy-19-norpregn-4-ene-3,20-dione, and the methods include combining the progestin compound with an estrogen compound to provide both contraception and treatment for myelin repair and neurodegeneration.

NEUROPROTECTION

Page 20/30

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**Neuroprotection
AND MYELIN REPAIR
USING NESTORONE®
- THE ...**

OL-Regenerated Myelin
Ensheathes Larger-
Caliber Axons over
Time and Elongates
Independently of
Axonal Growth. To
track the evolution of
OL-regenerated myelin,
we examined mG +
sheath dimensions and
axonal parameters
from 1 to 6 MPV. In
contrast to 1 MPV, OL-
regenerated myelin

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ensheathed small- and large-caliber axons at 3 and 6 MPV (Fig. 4 A and B).

Remyelination reporter reveals prolonged refinement of ...

However, there is an urgent need for innovative therapies promoting neuroregeneration and particularly myelin repair. It has been demonstrated that

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testosterone can act
through neural

androgen receptors to
promote proliferation
and differentiation of
oligodendrocyte
precursors into mature
oligodendrocytes in a
cuprizone-induced
animal model of
demyelination.

**TOTEM RRMS :
Testosterone
Treatment on
Neuroprotection and**

...

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The human body has an amazing natural ability to repair myelin and get nerves working properly again. Myelin is repaired or replaced by special cells in the brain called oligodendrocytes.

These cells are made from a type of stem cell found in the brain, called oligodendrocyte precursor cells (OPCs).

Myelin repair | Multiple Sclerosis

Read PDF Myelin Repair And Neuroprotection **Society UK**

Myelin is a cholesterol rich extension of oligodendrocytes and Schwann cells (SCs) plasma membrane, which serves as a specialized insulation sheath for axons in the nervous system. Myelin facilitates axon signal conduction through enabling “saltatory conduction” (see review by Miron and Franklin, 2014).

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Frontiers | Myelin damage and repair in pathologic CNS ...

Vaccination with dendritic cells pulsed with peptides of myelin basic protein promotes functional recovery from spinal cord injury ... the results suggest that the DC-mediated neuroprotection was achieved via the induction of a systemic T-cell-dependent immune response. ... via transient induction

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of an autoimmune
response, the maximal
benefit ...

**Vaccination with
dendritic cells
pulsed with peptides
of ...**

Multiple sclerosis (MS),
an incurable but
manageable disorder,
is characterized by
chronic inflammatory
demyelination and
neurodegeneration in
the central nervous
system. Although the

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In Multiple
Sclerosis

primary cause of this often devastating disease remains elusive, major

therapeutic advances have occurred during the past two decades. Here, we present a review of current immunomodulatory treatments and outline

...

**Neuroprotection,
regeneration and
immunomodulation**

...

Page 28/30

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BioNews Texas,

Multiple Sclerosis

Myelin Repair,

Neuroprotection Drug

To Be Tested In New

Research

Collaboration, February

3, 2014: Bio-IT World,

January News and

Product Briefs, January

2014: NeuroNews,

Myelin Repair

Foundation and NIH

enter into agreement

to repurpose MRF-008

for multiple sclerosis,

January 29, 2014

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