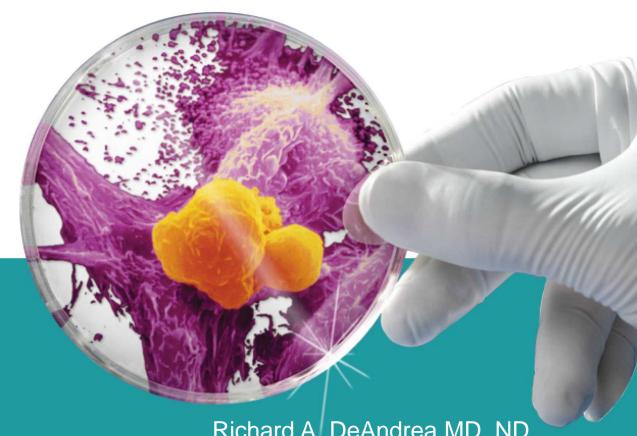
# **Stem Cell Therapy & GcMAF** For Autism & Neurological Disorders





Richard A. DeAndrea MD, ND

**Medical Director** 

# Stem Cell Therapy For Autism & Neurological Disorders



**Medical Director** 



# Immune System

T Cells B Cells

Macrophages

#### What is Autism?

Neural dev. disorder-socialization, communication, anxiety, behavior, gate, digestive, metabolic and immune issues.

CAUSE: Genetic vs Epigenetic- vaccines (thimerasol), anti depressants, pesticides, etc.

EPIDEMIC: US 1 /110 vaccinated develop AUTISM between 1996 and 2007...highest jump... vaccine gamble!

#### **CONTROVERSY?**

Wakefield AJ. MMR vaccination and autism. *Lancet.* 1999;354:949-5

Lisa A. Cohen, PhD. Antidepressant (SSRI) During Pregnancy. And Autism Spectrum Disorders *Arch Gen Psychiatry*. July 2011.

Bernard S, et al. The role of mercury in autism. J. Mol Psychiatry 2002;7:S42-S43.

# **Msnbc**

Vaccinations cause autism, the link is clear. The autism blame falls on the gov't and it's efforts to cover their tracks





Robert F. Kennedy Jr.
Speaking on msnbc
June 2005

#### **Autism**

The Severity of Autism Is Associated with Toxic Metal Body Burden and Red Blood Cell Glutathione Levels

J. B. Adams, M. Baral, J. Bradstreet Department of Pediatrics, Tulane University School of Medicine, New Orleans, USA. Journal of Toxicology, 2009 Journal of Toxic & Environ. Chem. June, 2009.

Thimerosal causes cellular and mitochondrial damage, reduced oxidative-reduction, cellular degeneration, and death. It causes significant cellular toxicity in human brain and fetal cells

# The Content

Evidence: Cause & Effect

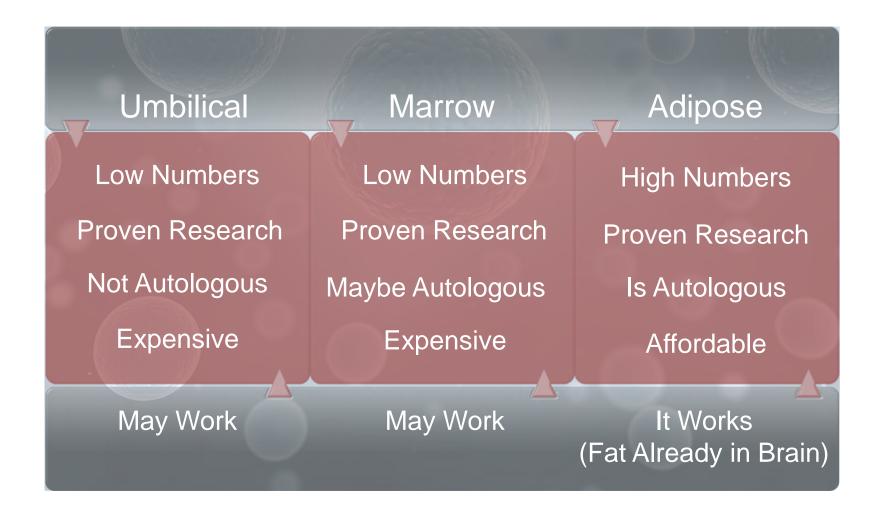
Overview:
The
Procedure

Autism: Stem Cell Therapy

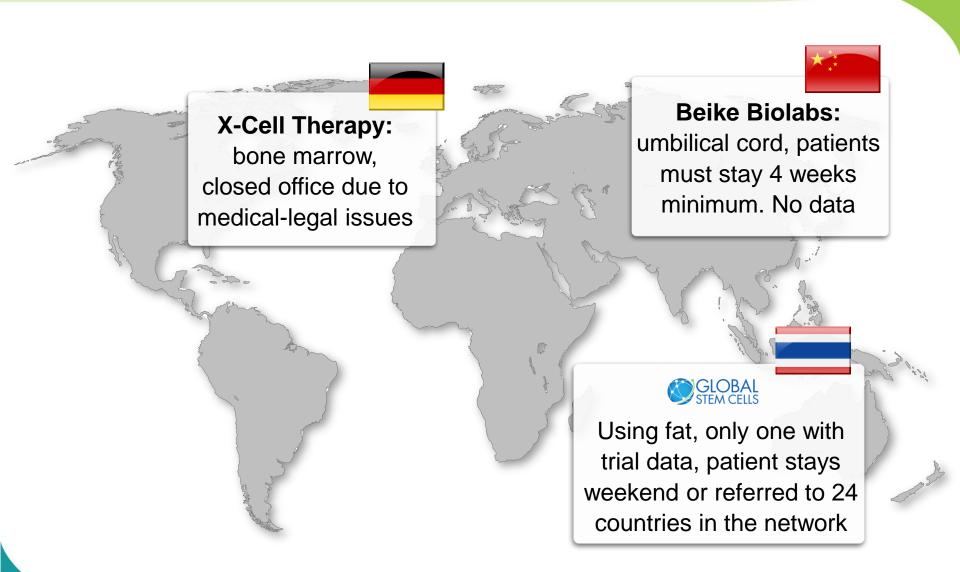
Autism & Neurology

Case Studies: Clinical Trials

#### 3 Sources: How to Choose?



# Three Main Countries



#### Evidence of Cause and Effect

#### **Umbilical Cord:**

44 pieces of peer reviewed research available on pubmed "umbilical cord stem cells"

Bone Marrow: 1462 pieces of peer reviewed research available on pubmed "bone marrow stem cells"

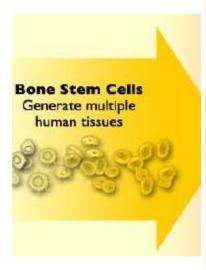
Adipose: 180 pieces of peer reviewed research and clinical trails. "adipose stem cells"

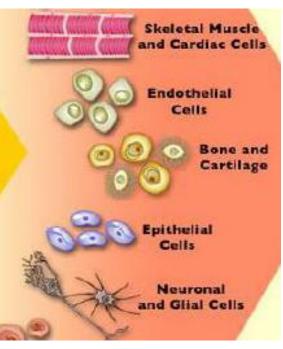
J Transl Med. 2007 Jun 27;5:30. Stem cell therapy for autism. Ichim TE, Solano F, Glenn E Medistem Laboratories Inc, Tempe, Arizona, USA.

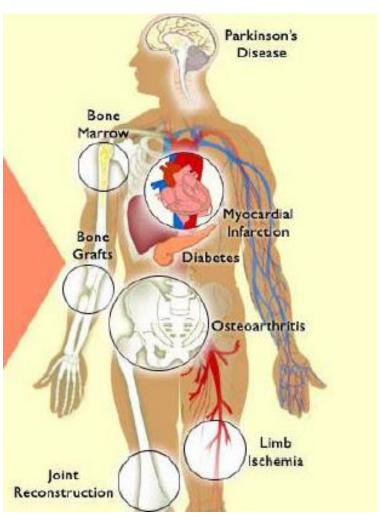
\*\*Presently in publication on the largest clinical trial completed. EU FDA in Greece with Dr. Bouros, Harvard and Dr. Kouliakis, BioHellineka Bank....75% of children back in regular school...all children improved...better mood, eye contact, playing free of direction, no random emotional outbreaks, less abdominal pain...the parents are very happy!

# Repair Cells of the Body

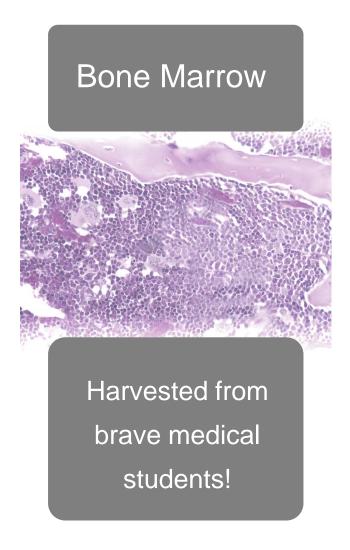
#### **Adult Stem** cells

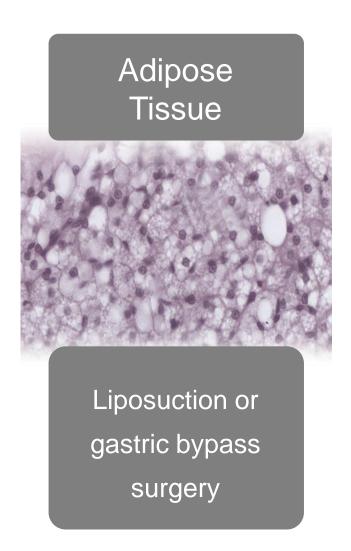




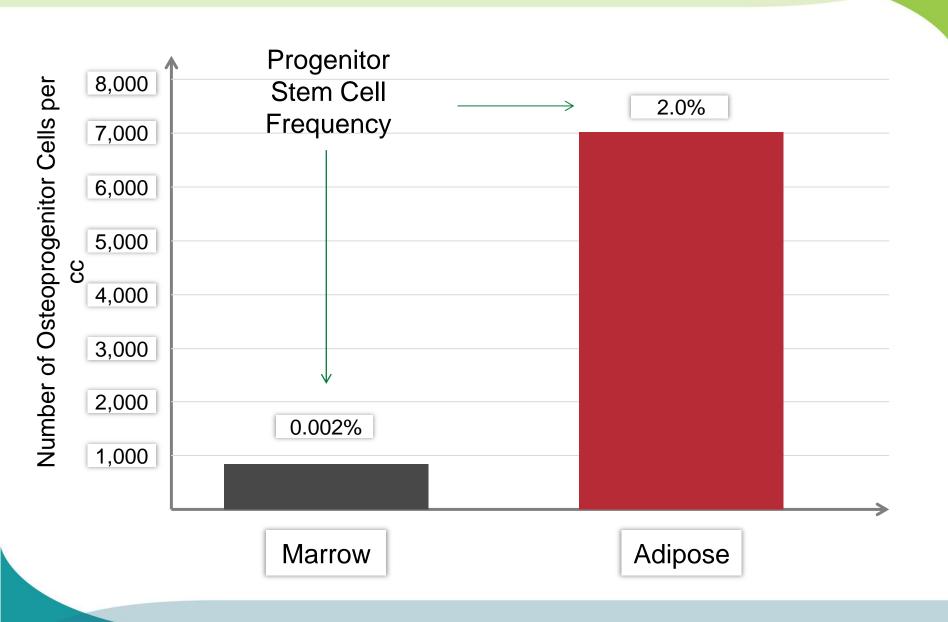


# Sources of Mesenchymel Stem Cells

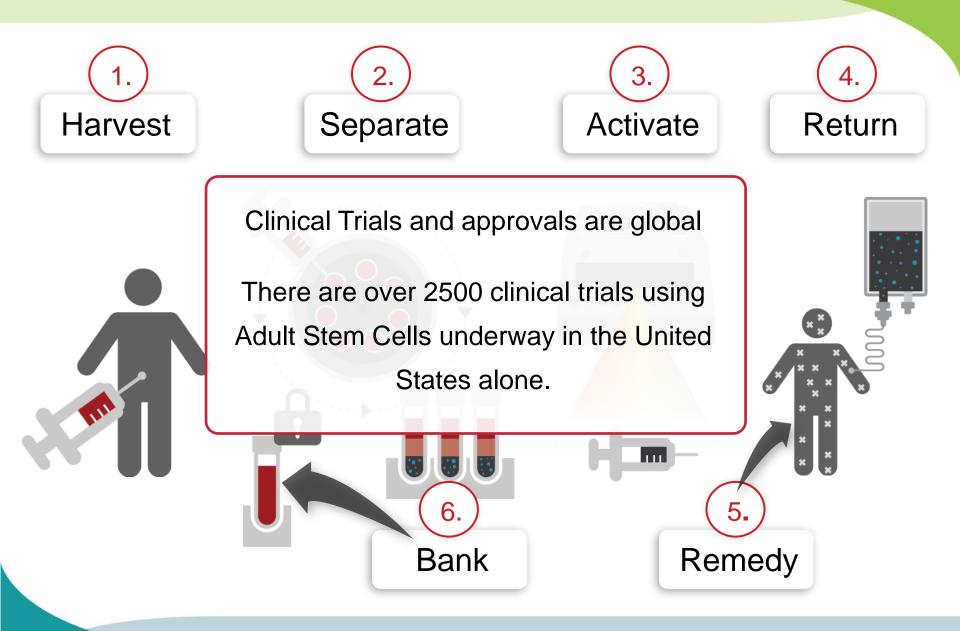




### Adipose Derived Stem Cells: Got Fat?



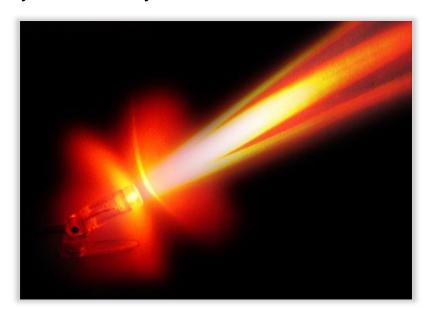
# Stem Cell Therapy is NOW!



### 161 plus activation by LED

Stem Cells Respond to Low Level Lasers

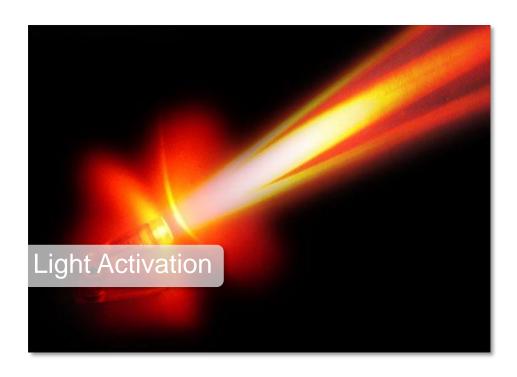
Implantation of Low-Level Laser Irradiated Mesenchymal Stem Cells into the Infarcted Rat Heart Is Associated with Reduction In Infarct Size and Enhanced Angiogenesis Hana Tuby, M.Sc., Lidya Maltz, M.Sc., and Uri Oron, Ph.D.



Photomedicine and Laser Surgery Volume 27, Number 2, 2008 ©Mary Ann Liebert, Inc. Pp. 227–234 DOI: 10.1089/pho.2008.2272

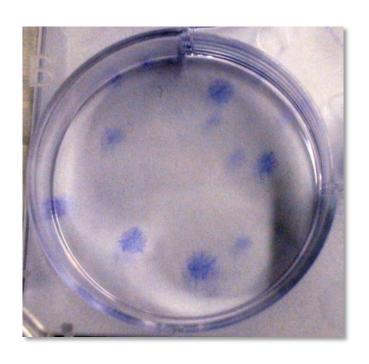
### Adipose Stem Cell Activation

Stem cells in fat are dormant: Various frequencies of light activate, wake up or energize then into action!

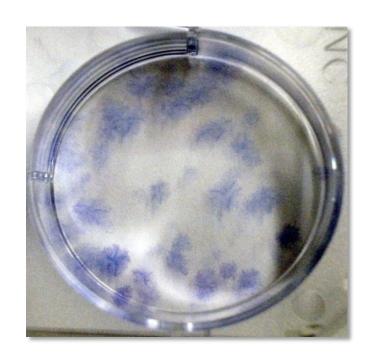




# Effect of PRP and LED Light

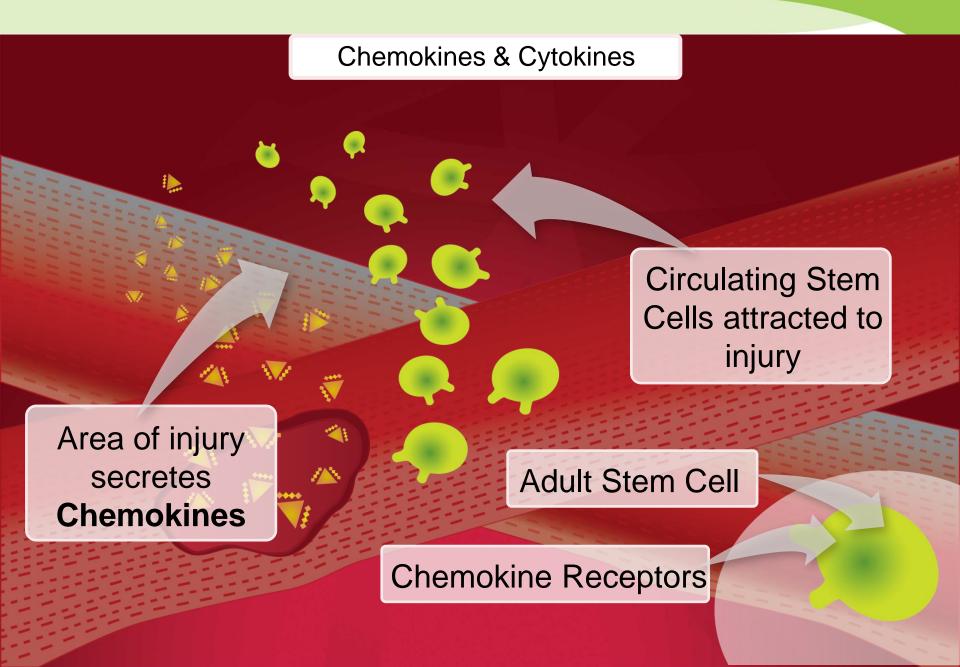


Non-activated stem cell colonies



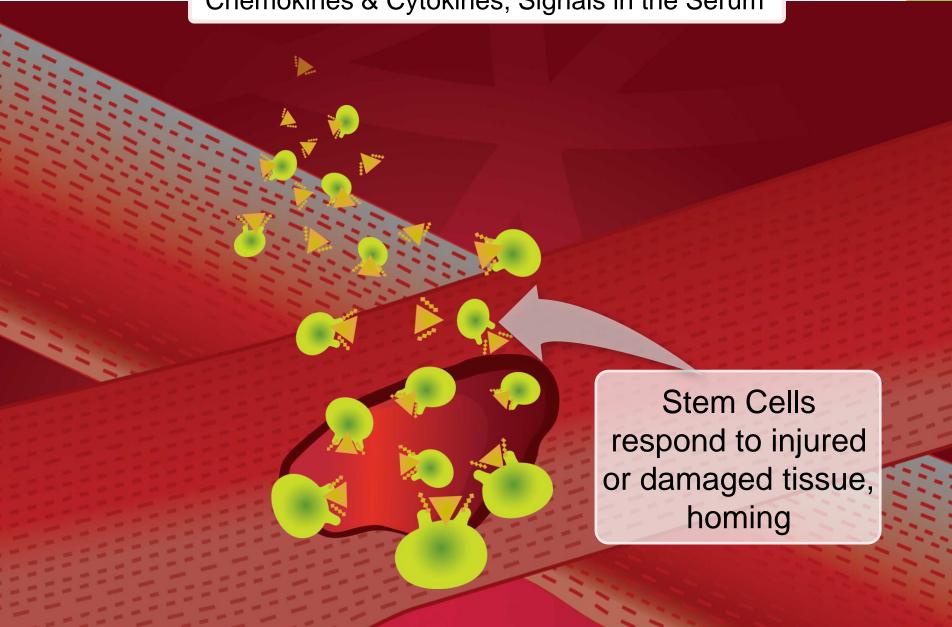
Stem cell colonies after activation with PRP + LED

## Injury & Degegration Secretes Messages

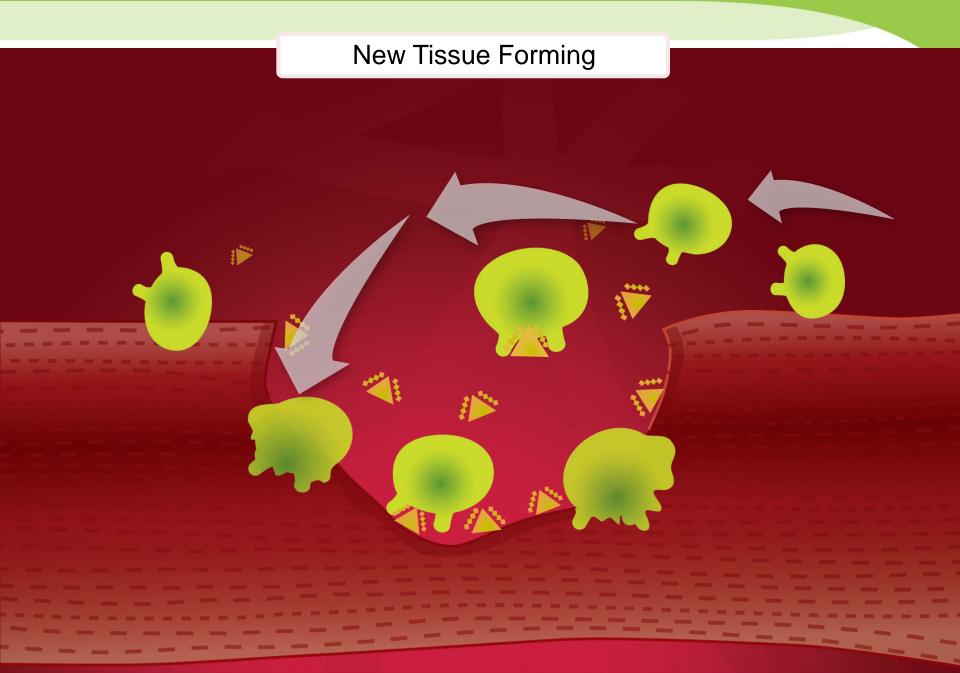


# Stem Cells Attracted By

Chemokines & Cytokines; Signals in the Serum

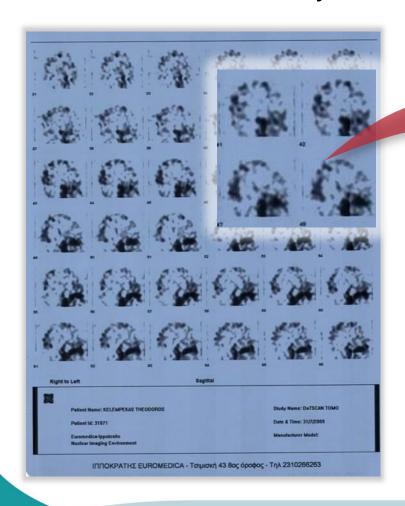


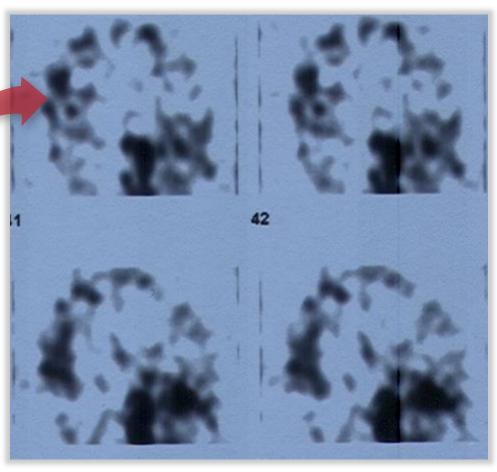
# Stem Cells Incite New Tissue



#### **Activated Stem Cells**

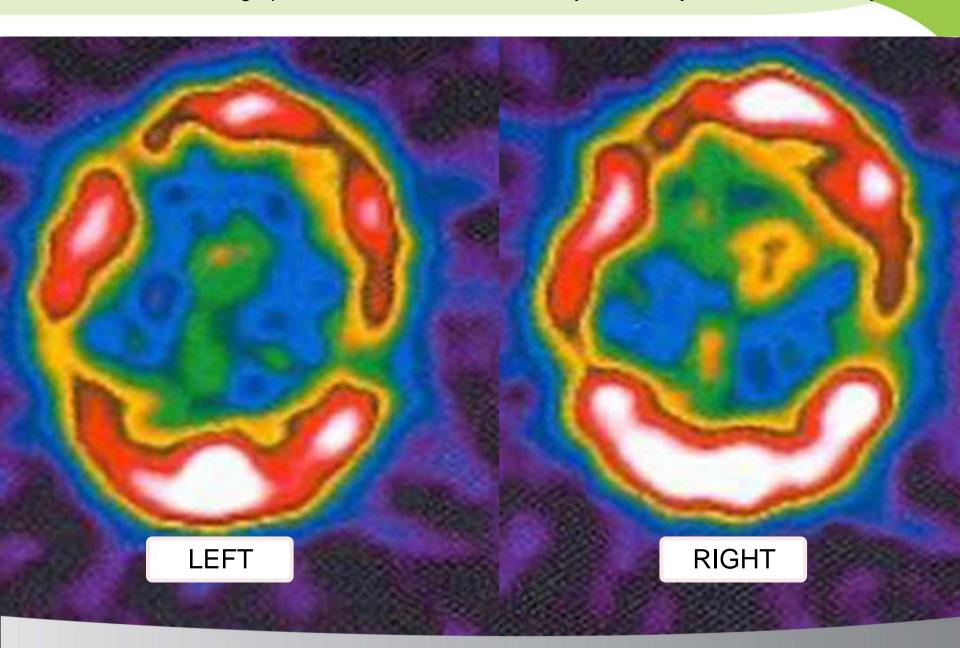
For TBI 99mTC-HMPAO-labeled ADSCs administered by I.V. after activation (PRP+Laser)





#### Indium

111 Stem Cell Scintigraphic Detection in a case of a 14 year old boy with Cerebral Palsy



# Give to Child via IV Drip



# Multiple Dosing is it Necessary?

#### Repeat doses – thaw cells and administer to patient





Doctor prescribes repeat doses, patient or condition specific protocols.

**Autism** Parkinson's Duchene's Muscular Stroke & Dystrophy Ataxia Neural **Conditions Treated** Traumatic Alzheimer's Brain Injury Cerebral Cerebellar Palsy Atrophy

#### Clinical Trials in USA- YES!

Many clinical trials underway on autism and stem cells.

A Simple Method to Generate Adipose Stem Cell-Derived Neurons for Screening Purposes.

Bossio C, Mastrangelo R, Morini R, Tonna N, Coco S, Verderio C, Matteoli M, Bianco F.

J Mol Neurosci. 2013 Mar 7. [Epub ahead of print]

PMID: 23468184 [PubMed - as supplied by publisher]

Related citations

Neurotrophic features of human adipose tissue-derived stromal cells: in vitro and in vivo studies.

Lattanzi W, Geloso MC, Saulnier N, Giannetti S, Puglisi MA, Corvino V, Gasbarrini A, Michetti F. J Biomed Biotechnol. 2011;2011:468705. doi: 10.1155/2011/468705. Epub 2011 Dec 15.

PMID: 22219658 [PubMed - indexed for MEDLINE] Free PMC Article

Related citations

#### American Doctor's Child Treated



Dear GSCN team,

Great to hear from you!

"Last night in the car, Julia shocked us by saying, "Stem cells help my brain. I feel better." :)

Pretty neat! At this moment, now, she is telling me, "I feel happy. I feel good in my bones."

Dr. Anthony

# Greek Doctor's son- after 2<sup>nd</sup> Dose!

"my son called me for the first time on the telephone."



#### HOME

Thanks to a New Stem Cell Therapy, a 9year Old Autistic Boy Talks to his Father for the First Time

Tue Apr 13, 3:01 am ET

Autism in children has increased dramatically around the world since the 1980's and is now a major health concern with no known cure. Thecauses of autism are hotly debated, but a new stem cell treatment has begun to demonstrate significant results.

Athens, Greece (PRWEB) April 13, 2010 -- Following remarkable improvement in the condition of

#### Completed Trial 28 Autism Patients

Dr. Koliakos, Dr. Bourros – Greek TV



Considering the autism trial, I met with Doctors in Athens yesterday, they said all children (28) are better.

Parents are satisfied, all psychological tests before and after treatment, spasticity is decreased in all children and much less

aggressiveness

More stable mood

More stable behaviour

More stable digestion

More Focus/Eye Contact

### Integrative Approach: the Middle Path!

Neuro	Digestion	Toxicity
ADSC therapy	Parasite/funga	Chelate
Myer's cocktail	Probiotic	Chlorella
Glutathione	Gluten free	Silymarin
HBO2	Wheat grass	Ginseng
Cysteine, methionine	Colostrum	Schizandra
Check TFT	ALCAT test	AFA
5-HTP	VitB12	Infrared
SAME	Folate	Epsom Baths
SOD	C4M peptide	Structural: Chiro
Omega	Iron	GcMAF
Homeopathy	Accu/Herbs	
BioFeedback	Macro diet	
Behaviour therapy		
Hypnotherapy		

#### Psychiatric Disorders as Well

# Depression, Mania, Schizophrenia...there is hope?

Cortical interneurons from human pluripotent stem cells: prospects for neurological and psychiatric disease.

Arber C, Li M.

Front Cell Neurosci. 2013;7:10. doi: 10.3389/fncel.2013.00010. Epub 2013 Mar 13.

PMID: 23493959 [PubMed] Free PMC Article

Related citations

Annual Research Review: The promise of **stem** cell research for neuropsychiatric disorders.

Vaccarino FM, Urban AE, et al.

J Child Psychol Psychiatry. Apr:504-16. 2011.

Induced pluripotent stem cells: a new tool to confront the challenge of neuropsychiatric disorders.

Vaccarino FM, Stevens HE, et al.

Neuropharmacology 2011 Jun:1355-63

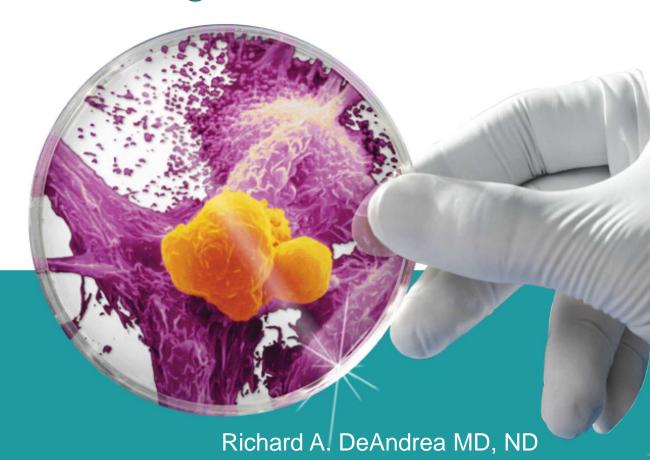
66

Its' a wonderful time for the stem cell field. Keep your seat belt on, because this ride is going to be wild

David Scadden
Co-Director Harvard Stem Cell Institute
February 2009



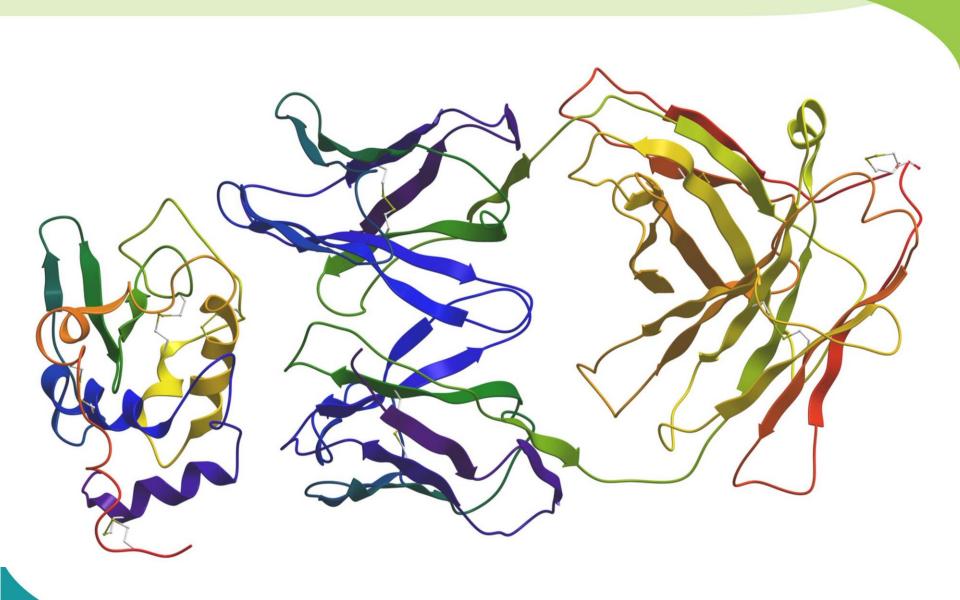
# GcMAF For Autism & Neurological Disorders



**Medical Director** 



# What is It?



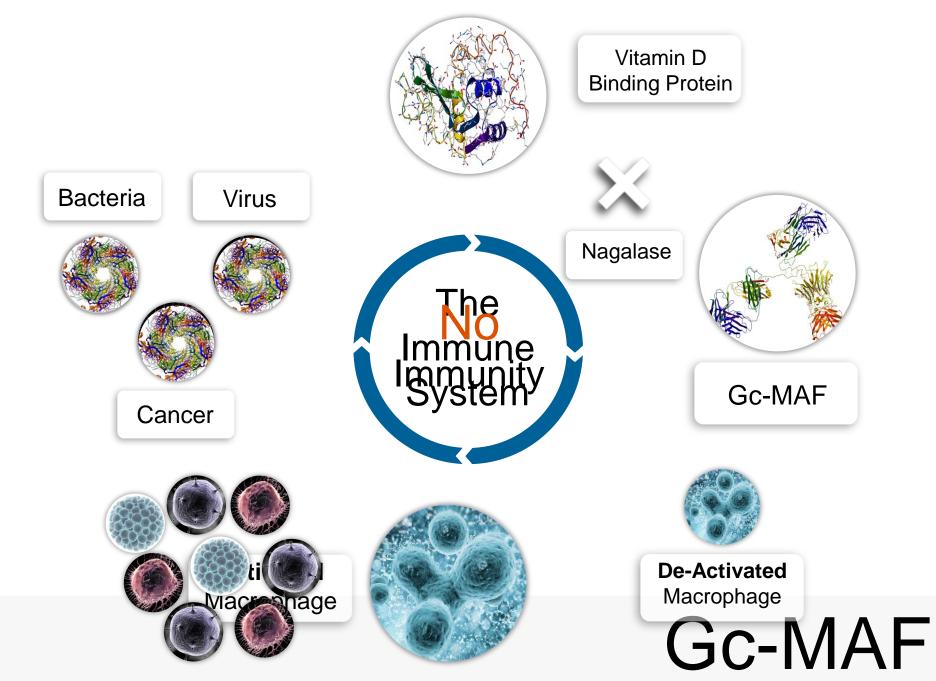
#### What is It?

A protein with three sugars, or glycoprotein.
Second Generation 200x more powerful
Embedded in Oleic acid insures cellular activation.
Original Source of serum: American Red Cross

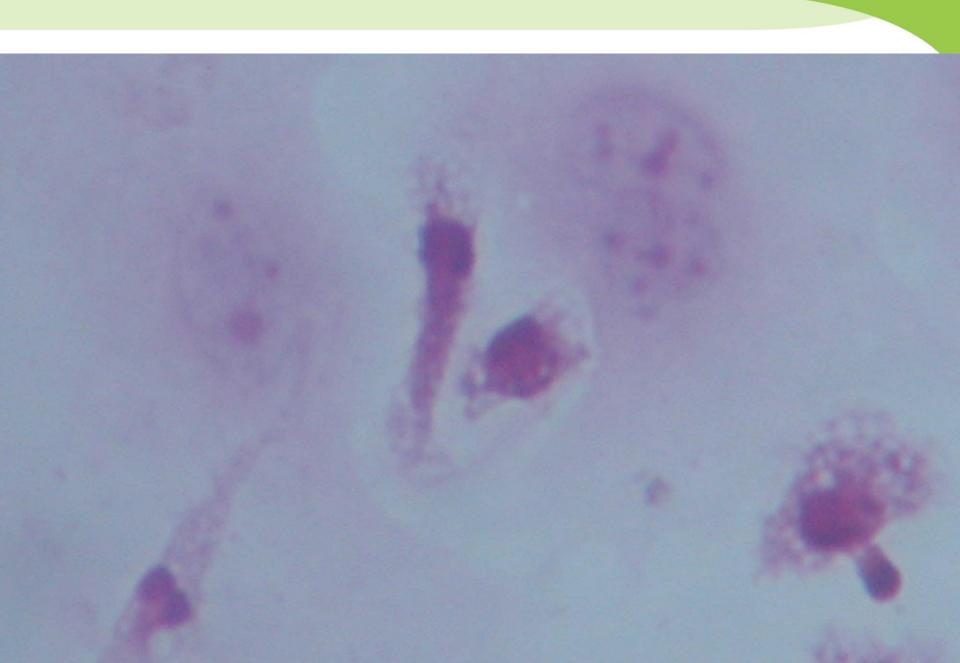
Salivary enzyme--- **Gc-protein**...**GcMAF** forms in gut--- oleic supplied by liver...**GcMAF-OLEIC**...is bio-identical compound.

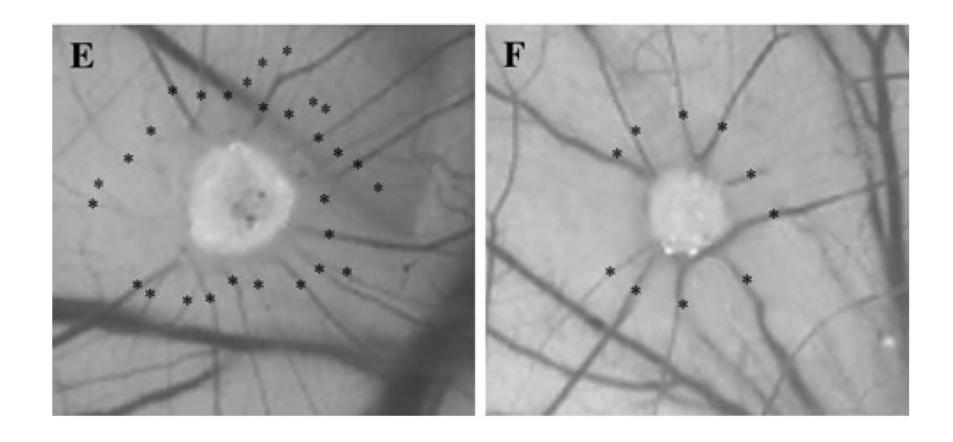
GcMAF factor in immune, brain, disease prevention, and repair of cancer related mutations (PLoS One. 2013 Jul18;8(7):e69059).

GcMAF-Oleic is the key for gut and immune surveillance!



# Activated Macrophage Fight Cancer





Reduces blood vessels to neoplasm by 50% in 3 weeks.

GcMAF, as 2<sup>nd</sup> generation Goleic is 200x more powerful:

Improves neuronal protection and production. Increases energy at mitochondria level Inhibits overall inflammation at cellular level

GcMAF is deficient in cancer, AIDS, resistant infection and chronic degenerative inflammatory diseases.

It is Holistic, complimentary, symbiotic with all therapies.

# Is There any Evidence?

Over 150 peer review publications found at *gcmaf.asia* Only GcMAF product with published evidence. Only GcMAF with over 6,000 patients in 30 countries.

German Nutracuetical/Orphan drug approved!

### What is the evidence for Austism Spectrum Disorder (ASD)?

A Gut, Immune, Central Nervous System inflammatory disorder, with PTSD: This is agreed.

Treatment needs to focus in these areas:

ASD, Gut issue: digestion/allergy/leaking?

Fix/leak/floura/digestion = increase healing response

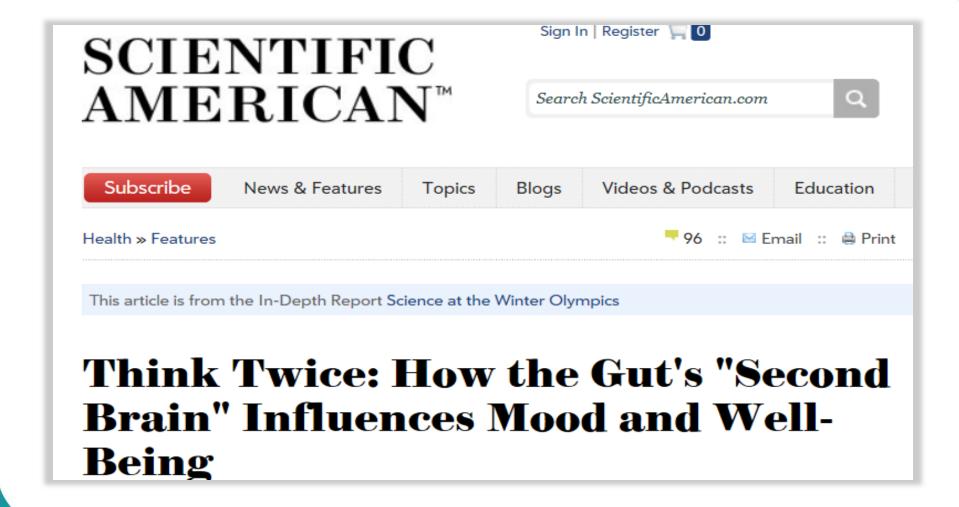
ASD, Immune issue: Inflam/reactive/hyper

Correct immune feedback cycle

ASD, Neuro issues: Mood/Dev. Delay/"drunk" behavior

Reduce reactive inflammation in CNS

# Of Central Importance...



## Abnormalities in the gut alter mood and behavior



When a person, especially a child, does not have balanced healthy micro-biome health problems occur:

diarrhea	flatulence	constipation	
vaginitis	lactose intolerance	food allergies	
bloating	indigestion	"brain fog"	

# When the gut micro-biome is established with GcMAF-Goleic these needed affects are enhanced:

control of unwanted pathogens in the gut	synthesis of many neurotransmitters	
regulation of inflammation and immunity	liver health and detoxification pathways	
synthesis of vitamin K and biotin	regulation of hormonal metabolism	
enhanced mineral bioavailability	blood sugar and appetite regulation (weight control)	

American Journal of Immunology 9 (3): 78-84, 2013

ISSN: 1553-619X

©2013 Science Publication

doi:10.3844/ajisp.2013.78.84 Published Online 9 (3) 2013 (http://www.thescipub.com/aji.toc)

# THERAPEUTIC EFFECTS OF HIGHLY PURIFIED DE-GLYCOSYLATED GCMAF IN THE IMMUNOTHERAPY OF PATIENTS WITH CHRONIC DISEASES

#### Regulates immune function:

Autism Insights 2012:4(31)

Bradstreet, J. et al.

Initial Observations of levated Alpha--Acetylgalactosaminidase Activity Associated with Autism and Observed Reductions from GC Protein—Macrophage Activating Factor Injections

Clear evidence GcMAF controls Nagalase, an enzyme elevated in ASD, measurable with symptom improvement!

The following chart is a summary of the many medical mysteries that involve significant immune dysfunction:

AIDS	Cancer	Autism	Crohn's Colitis	Psoriasis
Chronic Fatigue	Fibromyalgia	Candidiasis	Rheumatoid Arthritis	Heart Disease (?)
MS	Lupus	Severe IBS	Parkinson's	Obesity (?)

It turns out that there is a nemesis enzyme at work that is also activated by viruses, cancer, and the very causes of chronic inflammation in the first place. The very conditions that are begging for a more effective natural therapy actually sabotage the Gc before it can be activated to GcMAF. This nemesis enzyme's technical name is: alpha-N-acetylgalactosaminidase—mercifully abridged to the name NAGALASE.

GcMAF is essential for activation and control of immune response, when deficient Mast Cells have effects linked to mild encephalopathy.



Contents lists available at ScienceDirect

### Biochimica et Biophysica Acta





Review

## Mast cell activation and autism

Theoharis C. Theoharides a.b.c.d.e.\*, Asimenia Angelidou a.e., Konstantinos-Dionysios Alysandratos a.e., Bodi Zhang a.b., Shahrzad Asadi a., Konstantinos Francis f, Elena Toniato g, Dimitrios Kalogeromitros e

- \* Molecular Immunopharmacology and Drug Discovery Laboratory, Department of Pharmacology and Experimental Therapeutics, Tufts University School of Medicine, Boston, MA 02111, USA
- Department of Biochemistry, Tufts University School of Medicine, Boston, MA 02111, USA
- \* Department of Internal Medicine, Tufts University School of Medicine and Tufts Medical Center, Boston, MA 02111, USA
- Department of Psychiatry, Tufts University School of Medicine and Tufts Medical Center, Boston, MA 02111, USA
- \* Allergy Clinical Research Center, Allergy Section, Attikon General Hospital, University of Athens Medical School, Athens 12462, Greece
- Child Psychiatry Section, Second Department of Psychiatry, Attikon General Hospital, University of Athens Medical School, Athens 12462, Greece
- \* Department of Experimental Medicine and Oncology, Chieti Medical Center, Chieti 67100, Italy

# Regulates Neuro-Development and Regeneration

# Parts of the Brain Affected by Autism

#### Cerebral Cortex:

A thin layer of gray matter on the surface of the cerebral hemispheres. Two thirds of this area is deep in the tissues and folds. This area of the brain is responsible for higher mental functions, general movement, perception and behavioral reactions.

#### Amygdala:

This is responsible for all emotional responses including aggressive behavior.

#### Hippocampus:

This makes it possible to remember new information and recent events.

#### Brain Stem:

The Brain Stem is located in front of the cerebellum and serves as a relay station, passing messages between various parts of the body and the cerebral cortex. It controls the primitive funtions of the body essential to survival including breathing and heartt rate.

#### Basal Ganglia:

This is gray masses deep witin the cerebral hemisphere that connectes the cerebrum and the cerebellum. It helps regulate automatic movement.

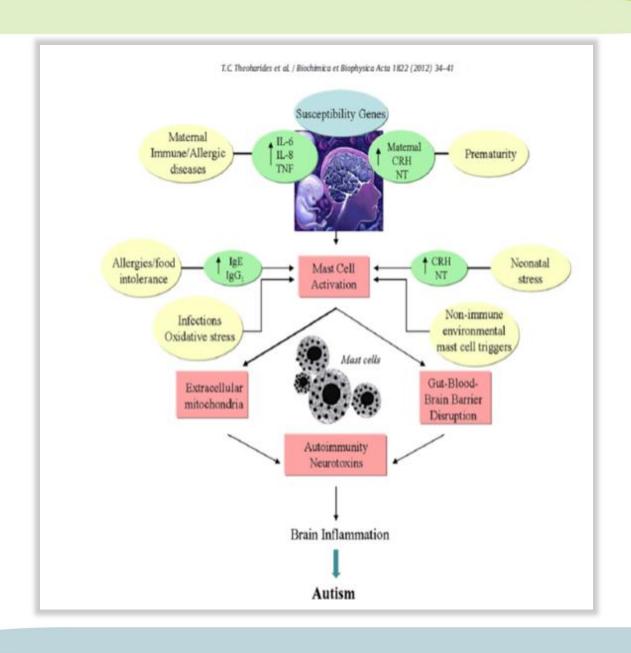
#### Corpus Callosum:

This consists of closely packed bundles of fibers that connect the right and left hemispheres of the brain and allows them to communicate with one another.

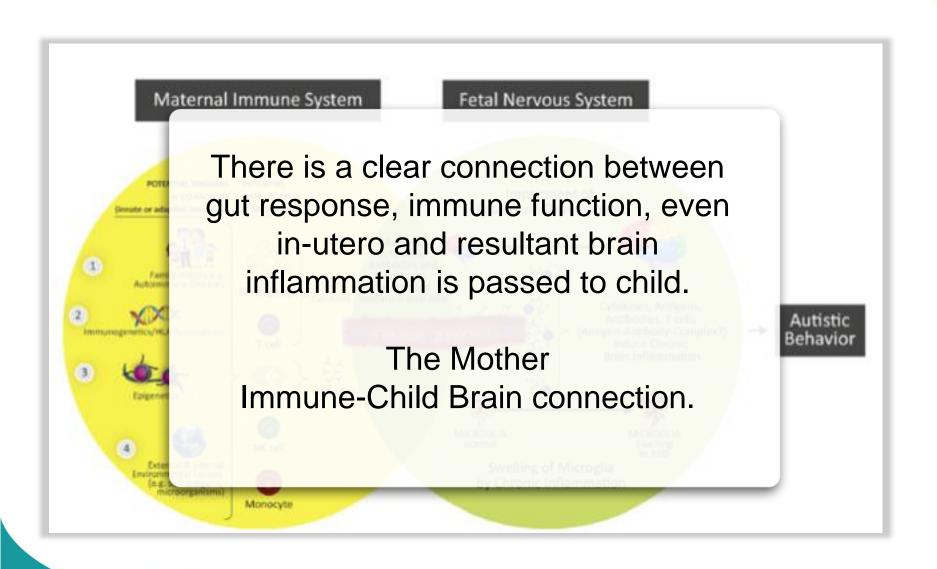
#### Cerebellum:

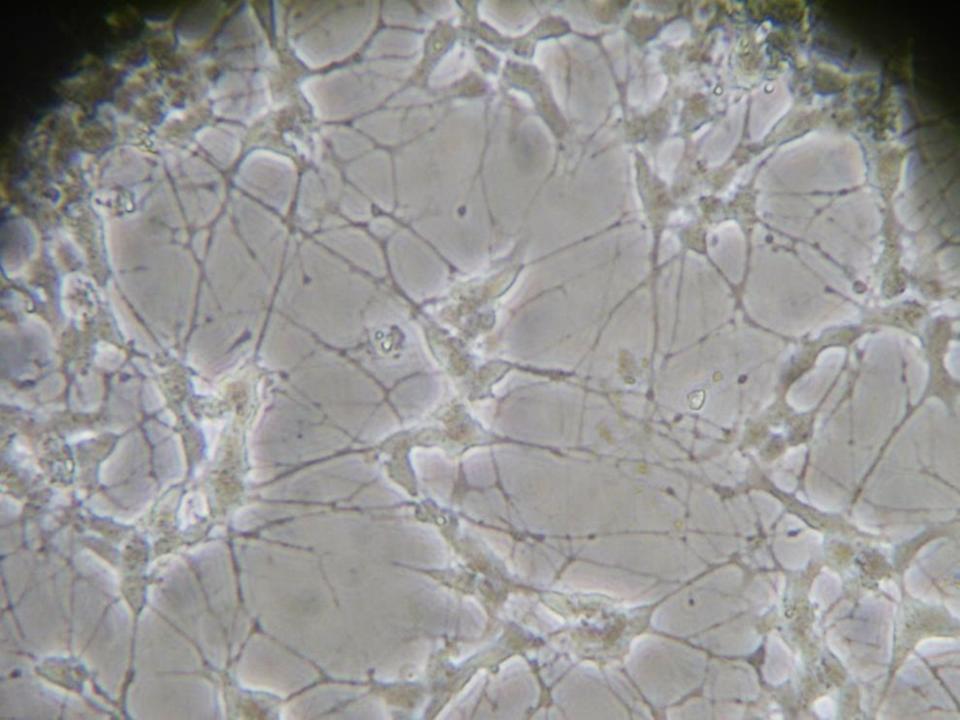
This is located at the back of the brain, It fine tunes motor activity, regulates balance, body movements, coordination and the muscles used for speaking.

# Inflammation From Gut to Brain



# Maternal Immune system to fetal nervous system



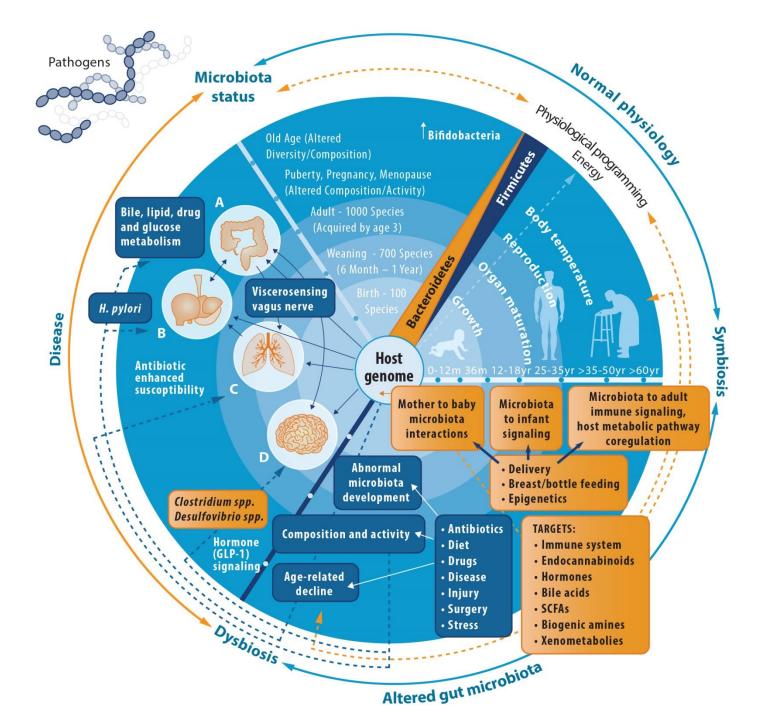


## Journal of Neuro-inflammation

Siniscalco et al. Journal of Neuroinflammation 2014, 11:78 The in vitro GcMAF effects on endocannabinoid system transcriptionomics, receptor formation, and cell activity of autism-derived macrophages

Clinical evidence GcMAF-Goleic activates neuronal crosslinking of Perkinje fiber needed for regeneration, control of microglia to prevent swelling and increase right-left brain connection....the mind?

The child may have no mind, literally.



All disease is best attended through immune and neuroresponse correction, simultaneously: What is GCMAF's role in immune regulation of stem cell regeneration?

Brain Res. 2010 Apr 9;1324:1-13. .

Hedgehog-dependent down-regulation of the tumor suppressor, vitamin D3 up-regulated protein 1 (VDUP1), precedes lamina development in Drosophila.

Chang S<sup>1</sup>, Mandalaywala NV, Snyder RG, Levendusky MC, Dearborn RE Jr.

This research showed down regulation of Vit D receptors, when GcMAF is deficient. This inhibits neuron and stem cell regeneration.

# Positive Prognosis in 85% of Cases

### With Lasting Benefits

- HIV
- ALS
- Alzheimers
- Autism
- Autoimmune
- Cancer
- Colitis
- Crohns' disease
- Depression

- Fibromyalgia
- HIV
- Kidney CKD
- Liver Disease: cirrhosis
- ME/CFS
- Multiple Sclerosis, MS
- Parkinson's
- Psoriasis
- Chronic infections



## frontiers in IN HUMAN NEUROSCIENCE



James Jeffrey Bradstreet, Stefania Pacini and Marco Ruggiero

Journal Name:

Frontiers in Human Neuroscience

ISSN:

1662-5161

Article type:

Original Research Article

First received on:

29 Sep 2013

Frontiers website link:

www.frontiersin.org

doi:10.1093/brain/awt166

BRAIN

Brain 2013: 136: 2825-2835 | 2825

# Early brain enlargement and elevated extra-axial fluid in infants who develop autism spectrum disorder

Mark D. Shen, <sup>1</sup> Christine W. Nordahl, <sup>1</sup> Gregory S. Young, <sup>1</sup> Sandra L. Wootton-Gorges, <sup>2</sup> Aaron Lee, <sup>1</sup> Sarah E. Liston, <sup>1</sup> Kayla R. Harrington, <sup>1</sup> Sally Ozonoff <sup>1</sup> and David G. Amaral <sup>1</sup>

# The FEAR of Autism....

We have 3,500 autistic kids on GcMAF-Goleic, 500 have made a full recovery

We supply 8,000 people, via 350 doctors GcMAF-Goleic worldwide

## Results Reported Dr. Bradstreet, Autism expert:

Treated over 2,000 autistic children with our GcMAF-Goleic 85% improve, and of them 15% have their condition reversed.

Dr Bradstreet has published two papers:

- 1. "Initial Observations of Elevated Alpha-N-Acetylgalactosaminidase Activity Associated with Autism and Observed Reductions from GC Protein—Macrophage Activating Factor Injections"
- 2. Int. J. Environ. Res. Public Health 2013, 10, 4261-4273 ISSN 1660-4601 Epigenetic Findings in Autism: New Perspective for Therapy Dario Siuscalce, J. Bradsreet, Nicola Autonucci, et al.

Ground Breaking Studies that providing a measurable to track progress, Nagalase vs GCMAF.

MMR vaccine related inflammatory effects reversed by GcMAF-Goleic! Children responded inside 4 weeks.

Children given 0.25cc GcMAF-Goleic, every three days.

## Italian Clinical Trial

94 families used GcMAF on children afflicted by autism. Children ranged from 3 to 15 years old. 83 of them reported significant improvements, 85% response. Children given 0.25 cc, with increasing doses over weeks. Noticed improvements 3 weeks.

## Improvements reported by Parents:

- 1. Cognitive: improve attention, focus, learning, understanding, self-awareness.
- 2. Communication: receptive and expressive to new language skills.
- 3. Social: willing to interact and communicate with peers.
- 4. Behavioral: less hyperactive, less stereotypical, more cooperative and compliant. Some hyperactivity, minimal.

Case Studies
GcMAF for Autism & Neurological

**Disorders** 





6 Years Old Male, 30 kg. Dx of Autism. 15 units/week of GcMAF. 12 weeks of treatment.

More attentive and receptive. Increase in verbal imitation and appropriate spontaneous use of words, increase the vocabulary of words correctly used (from 2-3 words to 40 words). Better pronunciation and articulation of words. Increasing dosage showed rare episodes of aggression.

6 Years Old, 20kg, Dx of PPD of Autism Spectrum, 10 units/week of GcMAF for 20 weeks

Much more cooperative and obedient, receptive, language now completely fluent, learning strongly improved.

Aggression and negative behaviour completely disappeared.

15 Years Old, male 46 kg.Dx of Autism with OCD.18 units in 24 weeks of treatment.

Significant reduction of obsessivecompulsive behaviour (nothing could be moved in room, or he could react with severe tantrums). Aggression completely disappeared.

7 aa, 25 kg, Dx of Autism.
17 units/week of
GcMAF for 16 weeks of treatments.

Hyperactivity completely disappeared, increased focus and attention, increased cognitive function and learning, and able to follow the curricular subjects like his peers. Better pronunciation and articulation of words and sentences. More respectful of rules at school and at home

F. 21 years old, 103 kg, Dx of Autism. 10 units/week of GcMAF, 10 weeks of treatment.

Severe awakening with loud screams and aggression lessened significantly until he awoke without agitation and aggression. Impulsive and aggression during the day completely disappeared. These improvements allowed the parents to discontinue psychotropic medications that he had been taking for many years.

# To Conclude...





# What is Being Said in the Media?

Top 5% of Nobel Prize reviewed research world-wide.

GcMAF-Goleic slows rate of a aging at genetic code!

The best offense, is a genetic defense.

GcMAF-Goleic (@vdr) interacts with BAG1 and other genes to reduce rates of physical and mental degeneration!

# Gc-MAF Goleic Interacts

## Interactions

Calcitriol receptor has been shown to interact with

- BAG1,<sup>[7]</sup>
- BAZ1B,<sup>[8]</sup>
- CAV3,<sup>[9]</sup>
- MED1,<sup>[8][10]</sup>
- MED12,<sup>[8][8][10]</sup>
- NCOR1,<sup>[11]</sup>
- NCOR2,<sup>[12][11]</sup>

- NCOA2, [8][13][14][15]
- RXRA,<sup>[16][14]</sup>
- RUNX1,<sup>[12]</sup>
- RUNX1T1,<sup>[12]</sup>
- SNW1,<sup>[16][14]</sup>
- STAT1,<sup>[17]</sup> and
- ZBTB16.<sup>[18][12]</sup>

# Down Regulated Genes of Aging Results

Improved CD4 cell function = more T helpers,

Improved NK cell function = more T Killers, viral load

Improved dendrite function = better memory/apprehension

Increased muscle function = faster twitch/activation

Increased skin, liver and lung function = more effective detox

Increased adrenal function = more vibrant energy

Increased non-expression = less oncogene= less cancer risk!

This core genomic effect may account for the miracles of GcMAF-Goleic.

## Side Effects?

Naturally occurring and already found in the human body

Very high dosages no side effect or reaction

Body will use the GcMAF as needed, like Vitamin C

There is no overdose

No drug interaction or interruption of other treatments

Complimentary to all therapies!

# What are the Regulations?

It is approved for use in the EU, Switzerland and the US.

Known to US FDA, US National Cancer Institute and NIH.

It has no known negative side effects or reaction to be noted.

There is no reaction to subcutaneous administration.

TMP and GMP certificates provided upon request.

German nutraceutical/Orphan drug approval provided.

The substance is being registered for approval in Thailand.

# How is it Taken?

May be given orally, SQ, SM, Nebulised or Functional Food

# What Makes This Product The BEST

It is ONLY Product...

Published in Peer Review

Pre Tested Before Release TMG and GMP Certificates

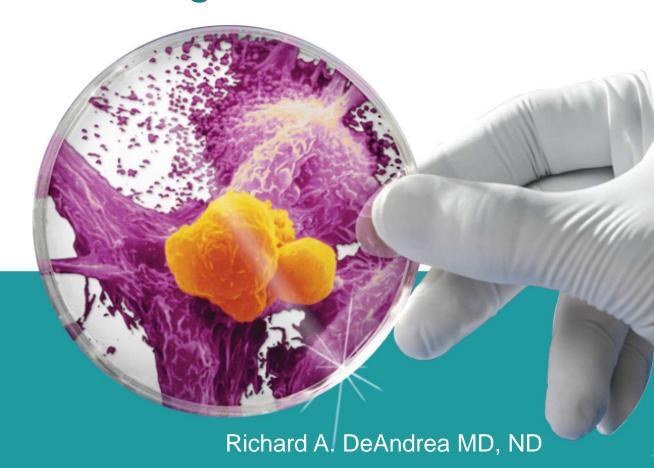
Open to Testing Contents

Results and Protocols Known to the USA NCI

Evidence of Cancer Cure

Evidence of Genomic Effects

# Stem Cell Therapy & GcMAF For Autism & Neurological Disorders



**Medical Director** 

