

The Answer May Be In The Genes

Dr Juanita Wardley

Trying Everything to Get your Children Well?

The Answer May be in...
Their Genes.

Genetic Consultants, LLC
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Genetic Testing

A New and Important Tool
Makes Bio Medical Treatment

- More Effective
- Less Side Effects

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Autism/Chronic Illness are Multifactorial

- Environmental Toxins and Metals
- Infections
- Stress
- Genetics

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- Environment influences Genetics
- Genetics influence Physiologic function

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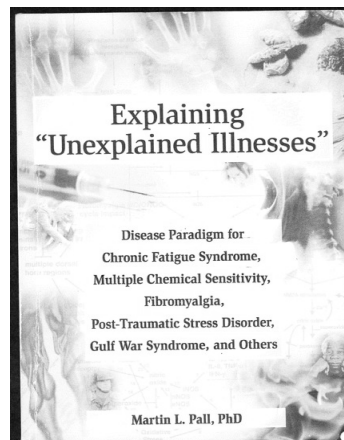
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Autoimmune Epidemic Donna Jackson Nakazawa

- 23.5 Million Americans
- 1 in 9 Women
- Rates Doubled in 30 years

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"Name" Not Significant

- Martin L. Pall PhD
- Explaining "Unexplained Illnesses"
- At Root All are the Same
- When Look at Symptoms & Genetics & Biochemical Test Results
- ALL are:
Oxidative - Inflammatory Disorders

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Oxidative - Inflammatory Disorders

- Autism Spectrum Disorders
- Neurological Diseases:
Alzheimer's, Parkinson
- Autoimmune Diseases:
Lupus, MS, CFS, Fibromyalgia

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Genetic Mutations

- Block the Detox System
- Toxins, Heavy Metals, Infections are
Not Excreted
- Deposited in Tissues & Glands of Body
- Antibodies Formed that
React to these Foreign Particles
- Result: Neurological & Autoimmune Diseases.

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- Why do Autistic children need
Detox and other children do
not?

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Why are
Toxins
Infections
Heavy Metals
Found in Autistic Children & Adults with
Autoimmune Disorders?

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- After detox what prevents more toxins
from accumulating?
- Will our autistic children be chronically ill
adults as new toxins accumulate after
detox?

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What is the Solution?

Correct Genetic Mutations
That
Prevent Detox

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Support of Methylation/ Detox Cycle

- CAN BE ENOUGH
- To Stimulate
- DETOX of
- Virus, Bacteria & Metals

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The Result Can Be

- Normal Healthy DETOX of
- Metal, Virus, Bacteria, Toxins
- Without Chemical Chelation

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How to Correct Detox Mutations

- Use Genetic Testing

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- Dr Amy Yasko
- Holistic Health International

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Genetic Profiling Systems

Comprehensive Methylation Panel

Gene Name	Variation
COMT	V158M
COMT	H62H
COMT	61
VDR	TAG
VDR	FOK
MAO A	R297R
ACAT	102
ACE	D2116
MTHFR	C677T
MTHFR	3
MTHFR	A1298C
MTR	A2756G
MTRR	A66G
MTRR	H595Y
MTRR	K350A
MTRR	R415T
MTRR	S257T
MTRR	11
BHMT	1
BHMT	2
BHMT	4
BHMT	8
AHCY	1
AHCY	2
AHCY	19
CBS	C699T
CBS	A360A
SUOX	S370S
SHMT	C1420T
NOS	D289E

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Genetic Testing Procedure

- Blood Collected at Home
- Finger Stick is Easy

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One Genetic Mutation Does Not Cause Autism

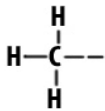
- Many Mutations Interact
- Each Child's Test Results have
- Different Combinations
- That Block Detox

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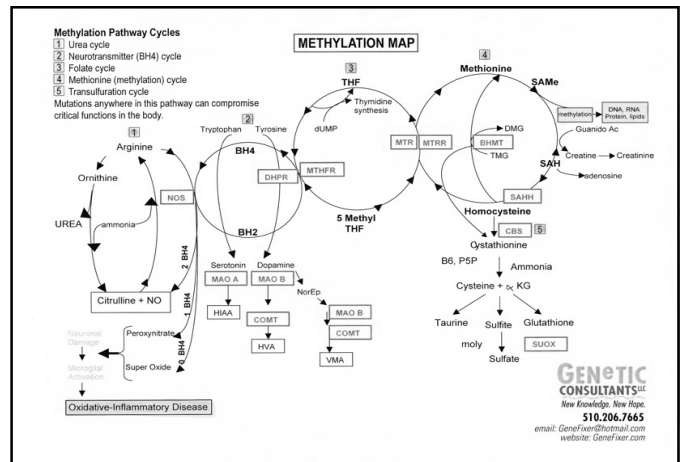
Methylation

- Detox Requires Methylation
- Helps Body Work Properly



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New Knowledge. New Hope.
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- Test to Determine Genetic Mutation
- Then Bypass.
- If Genetic Mutation
- Prevents the Body from
- Making or Doing a Reaction
- Provide Missing Support
- Then Detox Works.

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Methylation Pathway

Mutations in Pathways can Compromise Body Functions

1. Urea Cycle
2. Neurotransmitter Cycle (BH4)
3. Folate Cycle
4. Methionine Cycle
5. Transsulfuration Cycle

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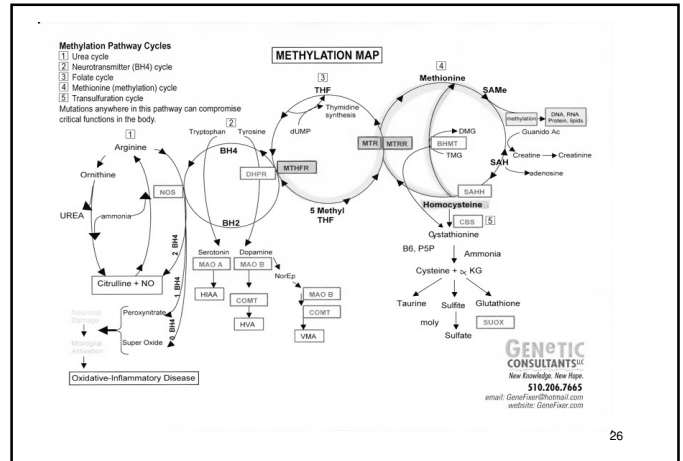
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Methylation Cycle

- Arrows show direction of
- Chemical Reactions Around the Circle.
- Methylation/Detox needs all reactions to Happen.
- A Mutation Acts like a Stop Sign to Prevent Detox

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Reduced Methyl Groups (CH3)

- MTR
Methionine Synthase Reductase
mutation is up regulation: increases use of Methy B12
- MTRR
Methionine Synthase Reductase
mutation is down regulation: decreases recycling
Methyl B12

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MTHFR C677T Methylene Tetrahydrofolate Reductase

- Mutation is a Down Regulation
- Less Folic Acid Converted to 5-Methyl-THF
- 5- Methyl-THF Needed for Detox
- Folinic Acid needs to be converted to 5-Methyl-THF to work in detox

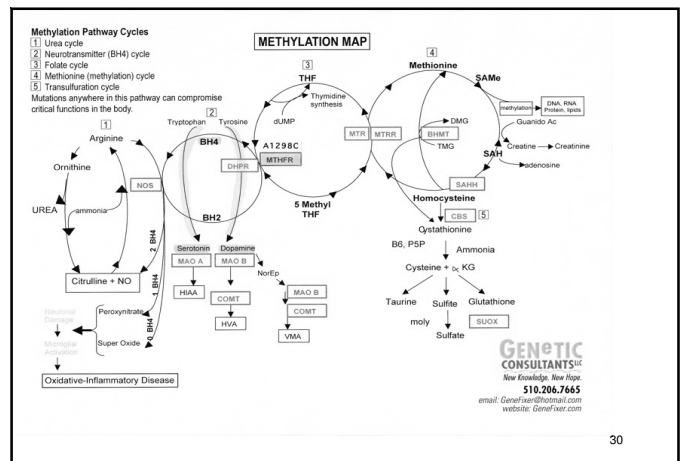
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FOLATE METABOLISM

- FOLIC ACID
- dihydrofolate
- tetrahydrofolate
- 10-formyl -THF \ Folinic Acid
- 5,10-Methyl -THF /
- 5,10-Methylene -THF
- 5-Methyl -THF (Metagenics, FolaPro)

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MTHFR A1298C Methylene Tetrahydrofolate Reductase

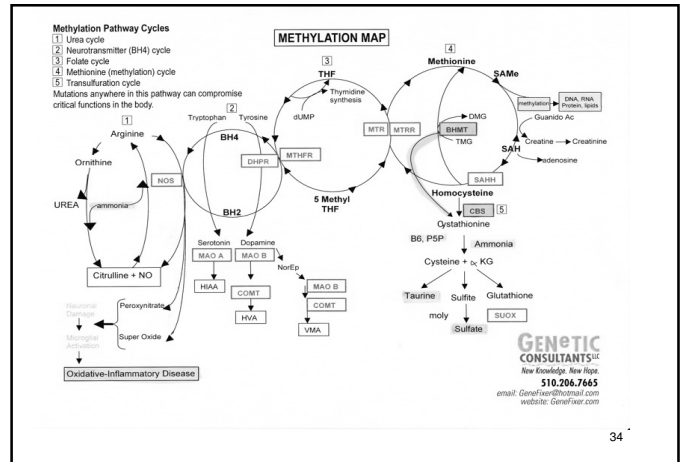
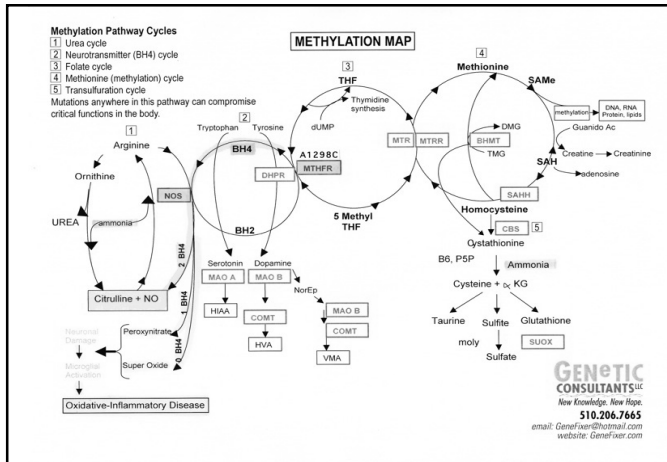
- Mutation down regulates recycling of BH2 to BH4
- Result is less BH4

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BH4 - Tetrahydrobiopterin needed for:

- Urea Cycle function
- Ammonia Detoxification
- Central nervous system function
- Produce Neurotransmitters for stable emotions.
- Control Hypersensitivity Reactions (stabilize mast cells)
- Language Development
- And much more

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CBS Cystathionine Beta Synthase

- Up Regulation of Transulfuration Cycle.
- Ammonia & Sulfate Increased

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Elevated Ammonia

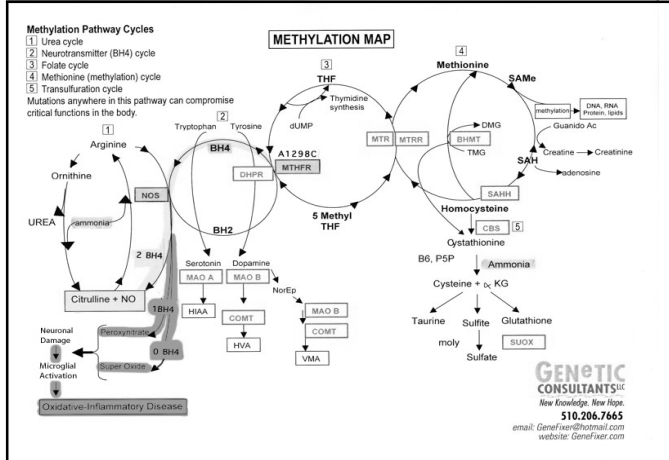
- Brain Fog, Confusion
- Paranoia, Panic Attacks
- Memory Loss
- Tremors of Hands
- CNS Toxicity
- Alzheimer's Disease
- Activation of NMDA Receptors

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NOS: Nitric Oxide Synthase
 Mutation Down Regulates Urea Cycle

- 2 molecules of BH4 = Citrulline + NO
- 1 molecule of BH4 = Peroxynitrite
- 0 molecule of BH4 = Superoxide

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BH4 Levels Effected By:

- Increased Ammonia
CBS, BHMT, NOS
- Reduced Recycling & Regeneration of BH4
MTHFR A1298C
- Increased Bacteria/Aluminum
Aluminum inhibits enzyme needed to make BH4

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Decreased BH4
 |
 Increased Peroxynitrite & Superoxide
 |
 Oxidative-Inflammatory Disorders

Such As: Autistic Spectrum Disorders
 Neurological & Autoimmune Diseases

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Solving the Genetic Puzzle

- Interpreting genetic results is like putting together the pieces of a puzzle.
- You have to consider all the genetic defects when you treat so the pieces will fit together properly.
- Treatment of an isolated genetic mutation may cause in side effects.

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Need More Help??

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- Talk at the Expo Table for :
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- ORDER Genetic Testing

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