

# AUTISM

IS AS UNIQUE AS YOUR CHILD...



AUTISM



**metametrix**<sup>®</sup>

Clinical Laboratory

quality • innovation • education

# THE SOLUTION SHOULD BE AS WELL.

Since **Autism Spectrum Disorders (ASD)** present with an array of symptoms and not one single cause, identifying your unique treatment protocol can be challenging. Functional laboratory testing allows you to take a multifaceted approach and helps you and your clinician formulate a unique treatment strategy for your child.



**Metamatrix** leads the industry in investments to improve laboratory testing quality and utility, creating **Next Generation Technologies<sup>SM</sup>**. These tests detect underlying factors associated with ASD symptoms and provide a plan for managing ASD by optimizing biochemical function. The following profiles result in significant contributions to the management and treatment of children with ASD.

The **ION<sup>SM</sup> (Individual • Optimal • Nutrition) Profile** is a comprehensive profile, revealing nutritional deficiencies, metabolic dysfunction, and toxicities. Combining profiles of organic acids, amino acids, fatty acids, nutrient and toxic elements, and antioxidant vitamins, the ION Profile represents your best testing value for revealing the metabolic basis of ASD symptoms.

The **Organix<sup>SM</sup> Profile** uncovers the nutritional and metabolic source of patient symptoms, including anxiety, mood changes, and immune responses.

The **Fatty Acid Profile** helps strike the right balance of fatty acids that can impact a child's health and development, particularly regarding attention, learning, behavior, and neurological development.

The **Amino Acid Profile** determines essential amino acid imbalances that affect both physical and mental function.

**Nutrient & Toxic Element Profiles** identify a toxic burden, which can render considerable damage to the brain and nervous system—particularly in children—as well as sufficiency of nutrient elements.

**Antioxidant Vitamins** measure a total body status of antioxidant nutrients and nutritional deficiencies.

The **Allergix<sup>SM</sup> IgG<sub>4</sub> Food Antibody Profile** identifies immune-mediated food intolerances by detecting offending foods. By eliminating these foods from the diet, behavioral and GI symptoms can be improved.

The **GI Effects<sup>SM</sup> Stool Profile** distinguishes issues in the gut, such as good vs. bad bacteria, fungi/yeast, parasites, inflammation, as well as digestion and absorption. Using state-of-the-art DNA technologies, the GI Effects Profile provides unprecedented accuracy from just ONE specimen collection.

The **Porphyrins Profile** reveals the impact of heavy metals and other toxins commonly found in ASD children, including mercury, lead, arsenic, and organotoxins.

| Characteristic Behaviors/Symptoms  | Common Factors in ASD Children  | Metamatrix Profiles to Identify Unique Treatment Options  |
|--|---|---|
| <ul style="list-style-type: none"> <li>• Anxiety</li> <li>• GI symptoms</li> <li>• Increased pain threshold</li> <li>• Withdrawal</li> <li>• Aggression</li> <li>• Impulsiveness</li> <li>• Lack of attention</li> <li>• Issues with non-verbal communication</li> <li>• Lacking in verbal communication skills</li> <li>• Poor immune responses</li> <li>• Problems with social relationships</li> <li>• Obsessive attachments to certain objects</li> <li>• Sensory integration problems</li> <li>• Poor behavior, whining, or tantrums</li> </ul> | <p><b>Poor Detoxification and Sulfation:</b> Inability to rid the body of toxins and increased oxidative stress</p>   | <ul style="list-style-type: none"> <li>• ION Profile</li> <li>• Organix Profile</li> <li>• Porphyrins Profile</li> </ul>                                      |
|  | <p><b>Heavy Metal Burden:</b> Accumulation of toxic metals from the environment</p>   | <ul style="list-style-type: none"> <li>• ION Profile</li> <li>• Nutrient &amp; Toxic Elements</li> <li>• Porphyrins Profile</li> </ul>                        |
|  | <p><b>Inflamed Gut or Microbial Imbalance:</b> Lead to digestive and absorptive difficulties</p>  | <ul style="list-style-type: none"> <li>• Allergix IgG<sub>4</sub> Food Antibody Profile</li> <li>• GI Effects Stool Profile</li> <li>• ION Profile</li> </ul> |
|  | <p><b>Allergies:</b> Immune reactions, commonly including gluten (wheat) and casein (milk) and often causes “leaky gut”</p>   | <ul style="list-style-type: none"> <li>• Allergix IgG<sub>4</sub> Food Antibody Profile</li> <li>• GI Effects Stool Profile</li> <li>• ION Profile</li> </ul> |
|  | <p><b>Nutritional Deficiencies:</b> A lack of key elements and nutrients inhibits immune response and detoxification</p>  | <ul style="list-style-type: none"> <li>• ION Profile</li> <li>• Nutrient &amp; Toxic Elements</li> </ul>  |
|  | <p><b>Impairment of Biochemical Pathways:</b> Metabolic blockages affect physiological and cognitive functioning</p>  | <ul style="list-style-type: none"> <li>• ION Profile</li> <li>• Organix Profile</li> </ul>  |
|  | <p><b>Neurological Inflammation:</b> Can be modified by identifying factors, such as toxins and nutrient deficiencies, and improved with customized supplementation</p> | <ul style="list-style-type: none"> <li>• ION Profile</li> <li>• Organix Profile</li> </ul>  |
|  | <p><b>Yeast Sensitivities:</b> May be related to multiple symptoms</p>  | <ul style="list-style-type: none"> <li>• Allergix IgG<sub>4</sub> Food Antibody Profile</li> <li>• GI Effects Stool Profile</li> <li>• ION Profile</li> </ul> |



*“I have used Metamatrix Organix for many years and found it consistently gives me the most help in evaluating and treating children with autism, more than any other test in my armamentarium.”*

*- Jaquelyn McCandless, MD, Author, Children with Starving Brains, a Medical Treatment Guide for Autism Spectrum Disorder*

## Metamatrix's Role with Autism

- Unique laboratory testing profiles to guide treatment
- Sponsor of Defeat Autism Now!, MINDD, and other ASD research organizations
- Interviews, presentations, and other resources on Autism are available online at [www.metamatrixinstitute.org](http://www.metamatrixinstitute.org)
- Case studies with interventions illustrated using various Metamatrix profiles



Metamatrix Clinical Laboratory is committed to furthering the understanding, treatment, and prevention of Autism Spectrum Disorders through laboratory testing, research, and education.



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