



## Deep Dives

Panel Code	Deep Dive Panel
<b>001</b>	<b>AGING</b>
	<ul style="list-style-type: none"> <li>• Aging – overall</li> <li>• Cardiovascular</li> <li>• Dementia / Alzheimer's</li> <li>• Immunity genomics</li> <li>• Inflammation</li> <li>• Liver genomics</li> <li>• Longevity genomics</li> <li>• Macular degeneration (AMD)</li> <li>• Obesity / metabolic syndrome</li> <li>• Oncology – general</li> <li>• Osteoporosis</li> <li>• Phase I / II balance</li> <li>• Oxidation / redox balance</li> <li>• Stroke risk</li> <li>• Telomere length</li> <li>• Thrombosis</li> <li>• Type 2 diabetes</li> </ul>
<b>002</b>	<b>ATHLETICS</b>
	<ul style="list-style-type: none"> <li>• Overall abilities</li> <li>• Age-related decline</li> <li>• Caffeine use</li> <li>• Concussions / head trauma</li> <li>• Endurance / extreme endurance</li> <li>• Extreme hot weather</li> <li>• Extreme cold weather / high altitude Injury risk</li> <li>• Motor skills / fine motor skills</li> <li>• Exercise recovery</li> <li>• Speed / Sprinting / Reflexes</li> <li>• Strength / Power</li> </ul>
<b>003</b>	<b>AUTOIMMUNE</b>
	<ul style="list-style-type: none"> <li>• General risk</li> <li>• Addison's disease</li> <li>• Ankylosing spondylitis</li> <li>• Celiac disease</li> <li>• Guillain-Barre syndrome</li> <li>• Graves' disease</li> <li>• Hashimoto's disease</li> <li>• IBD – Crohn's disease</li> <li>• IBD – Ulcerative colitis</li> <li>• Lupus (SLE)</li> <li>• Multiple sclerosis</li> <li>• Myasthenia gravis</li> <li>• Psoriasis / Psoriatic arthritis</li> <li>• Rheumatoid arthritis</li> <li>• Sjogren's syndrome</li> <li>• Type 1 diabetes</li> </ul>

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<b>004</b>	<b>CATECHOLAMINES</b>	
	<ul style="list-style-type: none"> <li>• Catecholamines – network map</li> <li>• Adrenaline / Norepinephrine</li> <li>• Dopamine</li> <li>• Melatonin</li> <li>• Serotonin</li> </ul>	<ul style="list-style-type: none"> <li>• Serotonin / Melatonin combined pathways</li> <li>• Dopamine / Norepinephrine combined pathways</li> </ul>
<b>005</b>	<b>CARIDOVASCULAR</b>	
	<ul style="list-style-type: none"> <li>• General risk</li> <li>• Abdominal aortic aneurysm</li> <li>• Anti-aging</li> <li>• Atherosclerosis</li> <li>• Atrial fibrillation</li> <li>• Cardiometabolic</li> <li>• Cholesterol</li> <li>• Coronary artery disease (CAD)</li> <li>• Deep vein thrombosis (DVT)</li> <li>• Endothelial dysfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Intestinal alkaline phosphatase</li> <li>• Ischemic heart disease (IHD)</li> <li>• Myocardial infarction (heart attack)</li> <li>• Nitric oxide – brain (NOS1)</li> <li>• Nitric oxide – inducible (NOS2)</li> <li>• Nitric oxide – endothelial (NOS3)</li> <li>• Peripheral artery disease (PAD)</li> <li>• Stroke / cerebral infarction</li> </ul>
<b>006</b>	<b>DRUGS – ADDICTIONS</b>	
	<ul style="list-style-type: none"> <li>• Overall risk</li> <li>• Alcohol</li> <li>• Food</li> <li>• Gaming</li> <li>• Glucose / sugar</li> <li>• Hypersexuality disorder</li> </ul>	<ul style="list-style-type: none"> <li>• Marijuana</li> <li>• Nicotine</li> <li>• Opioids (heroin, fentanyl, oxy pills, methadone, etc.)</li> <li>• Stimulants (methamphetamine, cocaine, etc.)</li> </ul>
<b>007</b>	<b>DRUGS – THERAPEUTIC</b>	
	<ul style="list-style-type: none"> <li>• Cannabinoid metabolism</li> <li>• Cannabinoid contraindications</li> <li>• DMT metabolism</li> <li>• DMT contraindications</li> <li>• Psilocybin metabolism</li> <li>• Psilocybin contraindications</li> </ul>	<ul style="list-style-type: none"> <li>• Ketamine metabolism</li> <li>• Ketamine contraindications</li> <li>• MDA metabolism</li> <li>• MDA contraindications</li> <li>• Mescaline metabolism</li> <li>• Mescaline contraindications</li> </ul>

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<b>008</b>	<b>COVID-19 ANALYSIS</b>	
	<ul style="list-style-type: none"> <li>• Infection / reinfection / Superspreader risk</li> <li>• ARDS / Sepsis / Severity</li> <li>• Micro-Thrombosis / Endothelial Dysfunction</li> <li>• Hypoxia / Hemoglobin</li> <li>• Fungal risk</li> <li>• Interferon I, II, and III genomics</li> <li>• New potential variants protection</li> <li>• Zinc requirements</li> <li>• Vitamin C requirements / High-dose IV vitamin C</li> </ul>	<ul style="list-style-type: none"> <li>• Inflammation / Cytokine Storm</li> <li>• Oxidant / Antioxidant Status</li> <li>• Pulmonary Fibrosis / Lung Function</li> <li>• Hydroxychloroquine dose</li> <li>• Ivermectin dose</li> <li>• Vitamin D Blood Levels</li> <li>• B-cell genomics</li> <li>• CD8+ T cell genomics</li> <li>• Major Histocompatibility Complex (MHC I, II, and III) genomics</li> <li>• Selenium requirements</li> </ul>
<b>009</b>	<b>COVID-19 VACCINE</b>	
	<ul style="list-style-type: none"> <li>• Seroconversion</li> <li>• Micro-Thrombosis Risk</li> <li>• Cytokine Storm Risk</li> <li>• Autoimmune Risk</li> <li>• Cumulative Fatality Risk</li> <li>• Adipocytokine genomics</li> <li>• IgA genomics</li> <li>• IgG genomics</li> <li>• IgM genomics</li> <li>• Th1/Th2 analysis</li> <li>• NK cell genomics</li> <li>• Neutrophil genomics</li> <li>• Other vaccines – summary</li> </ul>	<ul style="list-style-type: none"> <li>• New potential variants protection</li> <li>• Vaccine Detox Protocol – J &amp; J</li> <li>• Vaccine Detox Protocol – Moderna</li> <li>• Vaccine Detox Protocol – Pfizer</li> <li>• B-cell genomics</li> <li>• CD4+ T cell genomics</li> <li>• CD8+ T cell genomics</li> <li>• Treg genomics</li> <li>• Interferon I, II, and III genomics</li> <li>• M1/M2 macrophage genomics</li> <li>• Major Histocompatibility Complex (MHC I, II, and III) genomics</li> </ul>
<b>010</b>	<b>DETOX – GENERAL</b>	
	<ul style="list-style-type: none"> <li>• Phase I detox</li> <li>• Phase II detox</li> <li>• Phase III detox</li> <li>• Air pollution detox</li> <li>• Caffeine metabolism</li> <li>• Detox Wizard panel</li> <li>• Inflammation</li> <li>• Blood detox</li> <li>• Brain detox</li> <li>• Chemical detox</li> <li>• Colon / microbiome detox</li> <li>• Heavy metals detox</li> <li>• Liver detox</li> </ul>	

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<b>011</b>	<b>DETOX – BRAIN</b>	
	<ul style="list-style-type: none"> <li>• General brain health</li> <li>• General brain detox</li> <li>• Autophagy detox</li> <li>• Neurodegenerative detox</li> <li>• Histamine detox</li> <li>• Brain Catecholamine detox</li> <li>• Air pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Glutamate detox</li> <li>• Cannabinoid receptor signaling</li> <li>• Notch signaling and detox</li> <li>• Brain: Phase I</li> <li>• Brain: Phase II</li> <li>• Caffeine detox</li> </ul>
<b>012</b>	<b>DETOX – CHEMICALS</b>	
	<ul style="list-style-type: none"> <li>• General chemicals detox</li> <li>• Plastics / alkylphenols detox</li> <li>• Glyphosate / Roundup</li> <li>• Phthalates</li> <li>• Sunscreens</li> <li>• PCBs / PBBs / Hydol</li> <li>• PAH / Dioxins</li> <li>• Pesticides / Herbicides / Fungicides / Insecticides</li> <li>• Fluoride/hydrofluorosilicic ac.</li> </ul>	<ul style="list-style-type: none"> <li>• Air pollution – general</li> <li>• Air pollution – coal</li> <li>• Air pollution – construction</li> <li>• Air pollution – indoor / office</li> <li>• Air pollution – biochemistry</li> <li>• Air pollution – nuclear</li> <li>• BFR / PDBE – Flame retardants</li> <li>• Benzo(a)pyrenes</li> <li>• Bisphenol A (BPA)</li> </ul>
<b>013</b>	<b>DETOX – COLON / MICROBIOME</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomics</li> <li>• GI Phase I Detox</li> <li>• GI Phase II Detox</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Proteus (Global Agent List)</li> <li><b>Programmatics:</b></li> <li>• Compromised gluten breakdown</li> <li>• Gluten-Induced Immunopathology</li> <li>• Mucin-Degrading Microbiota</li> </ul>	<ul style="list-style-type: none"> <li>• SIBO / methanogens</li> <li>• General dysbiosis</li> <li>• Lethal GVHD / survival</li> <li>• Protolerogenic adjuvants</li> <li>• Ileal Crohn's</li> <li>• Endotoxemia</li> <li>• Pro-inflammatory genera</li> <li>• IBS / CFS</li> <li>• Faecalibacterium</li> <li>• Obesity / Metabolic Syndrome</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> </ul>

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<b>014</b>	<b>DETOX – COLON / MUCOID PLAQUE</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation / Mucus production – Genomics</li> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Radiance (Network Map)</li> </ul> <p><b>Programmatics:</b></p> <ul style="list-style-type: none"> <li>• Compromised gluten breakdown</li> <li>• Gluten-Induced Immunopathology</li> </ul>	<ul style="list-style-type: none"> <li>• Mucin-Degrading Microbiota</li> <li>• General dysbiosis</li> <li>• Ileal Crohn's</li> <li>• Endotoxemia</li> <li>• Pro-inflammatory genera</li> <li>• IBS / CFS</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> <li>• PON1 and other pesticide-related variants</li> </ul>
<b>015</b>	<b>DETOX – HEAVY METALS</b>	
	<ul style="list-style-type: none"> <li>• General heavy metal detox</li> <li>• Phase I detox</li> <li>• Phase II detox</li> <li>• Aluminum</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Copper</li> <li>• Lead</li> </ul>	<ul style="list-style-type: none"> <li>• Iron / hemochromatosis / HFE</li> <li>• Mercury</li> <li>• Nickel</li> <li>• Beryllium</li> <li>• Radon</li> <li>• Neurological damage risk</li> <li>• Kidney damage risk</li> <li>• Vaping heavy metal risk</li> </ul>
<b>016</b>	<b>DETOX – LIVER</b>	
	<ul style="list-style-type: none"> <li>• General liver detox</li> <li>• Phase I detox</li> <li>• Phase II detox</li> <li>• Phase III detox</li> <li>• Detox Wizard panel</li> <li>• Liver fibrosis risk</li> <li>• Wilson's disease</li> </ul>	<ul style="list-style-type: none"> <li>• Thrombosis proteins</li> <li>• Meds detox</li> <li>• NAFLD genomics</li> <li>• Iron / hemochromatosis</li> <li>• Fat metabolism</li> <li>• Hepatitis A, B, C genetics</li> <li>• Hepatocellular carcinoma risk</li> </ul>
<b>017</b>	<b>ENDOCRINE</b>	
	<ul style="list-style-type: none"> <li>• General endocrine / HPA axis</li> <li>• Adrenal insufficiency</li> <li>• Congenital adrenal hyperplasia (CAH)</li> <li>• Endocrine effects on osteoporosis</li> </ul>	<ul style="list-style-type: none"> <li>• Estrogen</li> <li>• Hyperaldosteronism</li> <li>• Increase Estradiol Protocol</li> <li>• Pituitary disorders</li> <li>• Steroid chemistry</li> <li>• Thyroid</li> <li>• Testosterone</li> </ul>

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<b>018</b>	<b>ENERGY / OBESITY / METABOLIC SYNDROME</b>	
	<ul style="list-style-type: none"> <li>• Obesity – general</li> <li>• Adipocytokines</li> <li>• CLA – requirements</li> <li>• Energy expenditure / resting metabolic rate (REE)</li> <li>• Exercise type, duration, resp.</li> <li>• Fat requirements, omega 3-6-9</li> <li>• Food combining</li> <li>• High protein</li> <li>• Hyperinsulinemia</li> </ul>	<ul style="list-style-type: none"> <li>• Keto / low carb</li> <li>• Low fat</li> <li>• Macronutrients 5D (Protein / Carbs / Fat / Alcohol / Fiber)</li> <li>• Mediterranean diet</li> <li>• Mitochondrial genomics</li> <li>• Satiety / Hangry genomics</li> <li>• Type 2 diabetes</li> <li>• Vegetarianism / Veganism</li> <li>• Weight <i>gain</i></li> <li>• Weight loss – resistance</li> <li>• Paleo diet</li> </ul>
<b>019</b>	<b>FASTING / INTERMITTENT FASTING</b>	
	<ul style="list-style-type: none"> <li>• Fasting – general</li> <li>• Fasting, intermittent</li> <li>• Energy expenditure / resting metabolic rate (REE)</li> <li>• Exercise type, duration, response</li> </ul>	<ul style="list-style-type: none"> <li>• High protein</li> <li>• Keto / low carb</li> <li>• Mitochondrial genomics</li> <li>• Satiety / Hangry genomics</li> <li>• Vegetarianism / Veganism</li> <li>• Weight loss – resistance</li> </ul>
<b>020</b>	<b>FIBROSIS</b>	
	<ul style="list-style-type: none"> <li>• Fibrosis – general</li> <li>• Connective tissue</li> <li>• Cystic fibrosis</li> <li>• Extracellular matrix proteins</li> <li>• IL-10</li> <li>• Liver fibrosis</li> <li>• M1/M2 Macrophages</li> </ul>	<ul style="list-style-type: none"> <li>• Pulmonary fibrosis (incl. IPF)</li> <li>• Radiation-induced lung injury</li> <li>• Renal fibrosis</li> <li>• TGFB</li> <li>• Tissue remodeling genomics</li> <li>• Wound healing</li> </ul>
<b>021</b>	<b>GASTROINTESTINAL</b>	
	<ul style="list-style-type: none"> <li>• GI – general</li> <li>• GI – Wizard analysis</li> <li>• CYP1A1 analysis</li> <li>• Intestinal alkaline phosphatase</li> <li>• Intestinal autophagy</li> <li>• Irritable bowel syndrome (IBS)</li> <li>• IBS-C, IBS-D</li> <li>• Celiac / autoimmune</li> </ul>	<ul style="list-style-type: none"> <li>• Crohn's</li> <li>• Gluten, lectin sensitivity</li> <li>• Inflammation</li> <li>• Oxidative/ Antioxidant Genomics</li> <li>• Ulcerative colitis</li> <li>• HLA genomics</li> <li>• FUT2 / FUT3 genomics</li> <li>• Histamine genomics</li> <li>• TLR / innate immune – analysis</li> <li>• GI supplements</li> </ul>

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<b>022</b>	<b>IMMUNITY</b>	
	<ul style="list-style-type: none"> <li>• Immunity – general</li> <li>• Antibiotic-resistant bacteria (incl. Staph., Strep., and E. Coli)</li> <li>• HIV / AIDS</li> <li>• Chronic fatigue syndrome (CFS)</li> <li>• Histamine / Allergies</li> <li>• Hepatitis A</li> <li>• Hepatitis B</li> <li>• Hepatitis C</li> <li>• HPV</li> <li>• Infectious diseases – general</li> <li>• Infectious diseases – main (anthrax, dengue, malaria, Ebola, rabies, TB, yellow fever)</li> </ul>	<ul style="list-style-type: none"> <li>• Infectious diseases – ancestral (cholera, plague, smallpox, typhoid)</li> <li>• Inflammation</li> <li>• Influenza (incl. H1N1, H3N2, H5N1)</li> <li>• Lyme disease</li> <li>• Parasites (helminth, protozoa)</li> <li>• Parasites (tapeworms, roundworms / filarial, flukes, hookworms, pinworms, trichinosis)</li> <li>• Respiratory infections</li> <li>• Rheumatic fever</li> <li>• Viruses (CMV, herpesviruses, Epstein-Barr, etc.)</li> <li>• Yeast / fungal / Candida</li> </ul>
<b>023</b>	<b>INFLAMMATION</b>	
	<ul style="list-style-type: none"> <li>• Inflammation – general</li> <li>• Inflammation – wizard analysis</li> <li>• Adipocytokines</li> <li>• Asthma</li> <li>• FUT 2 / FUT3 genomics</li> <li>• Histamine genomics</li> </ul>	<ul style="list-style-type: none"> <li>• Oxidative stress / redox balance</li> <li>• Fibromyalgia / TMJ</li> <li>• Over-inflammation / Cytokine Storm Risk</li> <li>• Sepsis</li> </ul>
<b>024</b>	<b>LIVER / KIDNEY</b>	
	<ul style="list-style-type: none"> <li>• Liver – general</li> <li>• Kidney – general</li> <li>• Acute liver failure</li> <li>• Autoimmune</li> <li>• Chronic liver failure / ESRD</li> <li>• COPD complications</li> <li>• Gout / uric acid</li> <li>• Fibrosis risk</li> <li>• Immune / infections</li> <li>• EPO / RBC</li> </ul>	<ul style="list-style-type: none"> <li>• Kidney cancer</li> <li>• Kidney stones</li> <li>• Liver function</li> <li>• Phase I detox</li> <li>• Phase II detox Renal function</li> <li>• Polycystic kidney disease</li> <li>• Strobe kidney analysis</li> <li>• Strobe liver analysis</li> <li>• Type 2 diabetes</li> </ul>

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<b>025</b>	<b>METHYLATION</b>	
	<ul style="list-style-type: none"> <li>• Methylation – general</li> <li>• Methylation – Wizard analysis</li> <li>• Folate pathway</li> <li>• Methionine – alternative pathway</li> <li>• Methyl trapping</li> <li>• Homocysteine</li> </ul>	<ul style="list-style-type: none"> <li>• Tetrahydrobiopterin (BH4) production</li> <li>• One-carbon metabolism – network</li> <li>• Catecholamine metabolism – network</li> <li>• Phase II detox – glutathione conjugation and sulfation</li> <li>• Circadian oscillator network</li> </ul>
<b>026</b>	<b>MICROBIOME: GENERAL</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomic</li> <li>• Utopia: Loam Taxons</li> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Mapping)</li> <li>• Monza (Antibiotics)</li> <li>• Proteus (Global Agent List)</li> </ul> <p><b>Programmatics:</b></p> <ul style="list-style-type: none"> <li>• TMAO</li> <li>• Depression (3)</li> <li>• Sleep loss</li> <li>• Compromised gluten breakdown</li> </ul>	<ul style="list-style-type: none"> <li>• Mucin-Degrading Microbiota</li> <li>• General dysbiosis</li> <li>• Microbiota Enterotype</li> <li>• FUT2 secretor-associated microbiota</li> <li>• Equol-producing genera</li> <li>• Protolerogenic adjuvants</li> <li>• Extreme longevity</li> <li>• Pro-inflammatory genera</li> <li>• IBS / CFS</li> <li>• Mucin-degrading keystone (Akkermansia)</li> <li>• Faecalibacterium</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> </ul>
<b>027</b>	<b>MICROBIOME: COMMUNITY</b>	
	<ul style="list-style-type: none"> <li>• Utopia: Loam Taxons</li> <li>• Pansophia: Sequential</li> <li>• Radiance (Network Mapping)</li> <li>• Monza (Antibiotics)</li> <li>• Proteus (Global Agent List)</li> <li>• General dysbiosis</li> <li>• Diversity</li> </ul>	<ul style="list-style-type: none"> <li>• Microbiota Enterotype</li> <li>• FUT2 secretor-associated microbiota</li> <li>• Mucin-degrading microbiota</li> <li>• Mucin-degrading keystone (Akkermansia)</li> <li>• Faecalibacterium</li> <li>• Protolerogenic adjuvants</li> </ul>

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<b>028</b>	<b>MICROBIOME: METABOLISM</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genetic</li> <li>• GI Phase I Detox</li> <li>• GI Phase II Detox</li> <li>• Utopia: Loam Taxons</li> <li>• Spectrum: Categorical</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Mapping)</li> <li>• Proteus (Global Agent List)</li> </ul>	<ul style="list-style-type: none"> <li>• Deconjugation activity</li> <li>• Oxalate levels</li> <li>• Equol-producing genera</li> <li>• TMAO</li> <li>• SIBO / methanogens</li> <li>• Fatty acid conversion</li> <li>• Compromised gluten breakdown</li> <li>• General dysbiosis</li> <li>• FUT2 secretor-associated microbiota</li> </ul>
<b>029</b>	<b>MICROBIOME: PATHOLOGY</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomic</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Mapping)</li> <li>• Proteus (Global Agent List)</li> <li>• Eggerthella / TG / HDL</li> <li>• Multiple Sclerosis</li> <li>• Lethal GVHD / survival</li> <li>• Autism / ASD (4)</li> <li>• Depression (3)</li> <li>• IBS / CFS</li> <li>• Sleep loss</li> <li>• Gluten-Induced Immunopath</li> </ul>	<ul style="list-style-type: none"> <li>• Compromised gluten breakdown</li> <li>• Protolerogenic adjuvants</li> <li>• Obesity / Metabolic Syndrome</li> <li>• Ileal Crohn's</li> <li>• Endotoxemia</li> <li>• Fatty liver / NAFLD</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> <li>• Extreme longevity</li> <li>• Pro-inflammatory genera</li> <li>• Parkinson's</li> <li>• Polycystic ovary syndrome (PCOS)</li> </ul>
<b>030</b>	<b>MICROBIOME: ANCESTRAL / CORE / KEYSTONE</b>	
	<ul style="list-style-type: none"> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Proteus (Global Agent List)</li> <li>• Diversity</li> <li>• Mucin-Degrading Microbiota</li> <li>• General dysbiosis</li> <li>• Microbiota Enterotype</li> </ul>	<ul style="list-style-type: none"> <li>• FUT2 secretor-associated microbiota</li> <li>• Deconjugation activity</li> <li>• Protolerogenic adjuvants</li> <li>• Extreme longevity</li> <li>• Pro-inflammatory genera</li> <li>• Mucin-degrading keystone (Akkermansia)</li> <li>• Faecalibacterium</li> </ul>

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<b>031</b>	<b>MICROBIOME: BUTYRATE / PROPIONATE</b>
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomics</li> <li>• Colorectal cancer – Genomics</li> <li>• Type 2 Diabetes - Genomics Spectrum: Categorical</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Mapping)</li> <li>• Proteus (Global Agent List)</li> <li>• Gluten breakdown</li> <li>• Pro-inflammatory genera</li> <li>• Obesity / Metabolic Syndrome</li> <li>• IBS / CFS</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> <li>• Parkinson's</li> <li>• Gluten-Induced Immunopathology</li> </ul>
<b>032</b>	<b>MICROBIOME: INFLAMMATION / HISTAMINE</b>
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomics</li> <li>• Histamine – Genomics</li> <li>• Inflammation – Genomics</li> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Map)</li> <li>• Proteus (Global Agent List)</li> <li><b>Programmatics:</b></li> <li>• Eggerthella / TG / HDL</li> <li>• TMAO</li> <li>• Compromised gluten breakdown</li> <li>• Gluten-Induced Immunopathology</li> <li>• General dysbiosis</li> <li>• Microbiota Enterotype</li> <li>• Lethal GVHD / survival</li> <li>• Protolerogenic adjuvants</li> <li>• Ileal Crohn's</li> <li>• Endotoxemia</li> <li>• Pro-inflammatory genera</li> <li>• IBS / CFS</li> <li>• Fatty liver / NAFLD</li> <li>• Bacterial translocation</li> <li>• Gut permeability</li> </ul>
<b>033</b>	<b>MICROBIOME: OBESITY</b>
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomics</li> <li>• Obesity – Genomics</li> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Radiance (Network Mapping)</li> <li>• Proteus (Global Agent List)</li> <li>• General dysbiosis</li> <li>• Deconjugation activity</li> <li>• Pro-inflammatory genera</li> <li>• IBS / CFS</li> <li>• Obesity / Metabolic Syndrome</li> </ul>

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<b>034</b>	<b>MICROBIOME: PREBIOTICS / PROBIOTICS / SUPPLEMENTS / FIBER</b>	
	<ul style="list-style-type: none"> <li>• GI Inflammation – Genomics</li> <li>• Utopia: Loam Taxons</li> <li>• Spectrum: Categorical</li> <li>• Pansophia: Sequential</li> <li>• Microbolome (KEGG Pathway)</li> <li>• Radiance (Network Mapping)</li> <li>• Monza (Antibiotics)</li> <li>• Proteus (Global Agent List)</li> <li>• TMAO</li> </ul>	<ul style="list-style-type: none"> <li>• Sleep loss</li> <li>• General dysbiosis</li> <li>• Microbiota Enterotype</li> <li>• FUT2 secretor-associated microbiota</li> <li>• Deconjugation activity</li> <li>• Pro-inflammatory genera</li> <li>• Obesity / Metabolic Syndrome</li> <li>• Bacterial translocation</li> <li>• Gut permeability – Leaky gut</li> </ul>
<b>035</b>	<b>NEURO: BRAIN AND DEVELOPMENTAL</b>	
	<ul style="list-style-type: none"> <li>• ADHD / ADD</li> <li>• Anxiety / Panic Disorders</li> <li>• Asperger syndrome</li> <li>• Autism / ASD</li> <li>• Bipolar Depression</li> <li>• Depression – MDD</li> <li>• Developmental</li> </ul>	<ul style="list-style-type: none"> <li>• Circadian / Sleep</li> <li>• Intelligence / IQ</li> <li>• Novelty-seeking / impulsivity</li> <li>• Psycho-social genomics</li> <li>• PTSD / trauma / adverse early-life environment</li> </ul>
<b>036</b>	<b>NEURO: COGNITION AND AGING</b>	
	<ul style="list-style-type: none"> <li>• Anxiety / Panic Disorders</li> <li>• Depression – MDD</li> <li>• Circadian / Sleep</li> <li>• Cortisol / ACTH / Stress</li> <li>• Dementia / Alzheimer's</li> <li>• Brain / Aging</li> </ul>	<ul style="list-style-type: none"> <li>• Intelligence / IQ</li> <li>• Parkinson's disease</li> <li>• Psycho-social genomics</li> <li>• Schizophrenia</li> <li>• Telomere length</li> </ul>
<b>037</b>	<b>NEURO: PSYCHIATRY AND DISORDERS</b>	
	<ul style="list-style-type: none"> <li>• ADHD / ADD</li> <li>• Anxiety / Panic Disorders</li> <li>• Bipolar Depression</li> <li>• Depression – MDD</li> <li>• Borderline Personality (BPD)</li> <li>• Antisocial Personality (ASPD)</li> <li>• Circadian / Sleep</li> <li>• Cortisol / ACTH / Stress</li> </ul>	<ul style="list-style-type: none"> <li>• Epilepsy</li> <li>• Headaches / Migraines</li> <li>• Novelty-seeking / impulsivity</li> <li>• Pathological aggression</li> <li>• PTSD / trauma / adverse early-life environment</li> <li>• Schizophrenia</li> <li>• Suicide</li> </ul>

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038	NUTRIENTS – FOODS AND DRINKS	
	<ul style="list-style-type: none"> <li>• Berries</li> <li>• Broccoli sprouts / sulforaphane</li> <li>• Conjugated linoleic acid (CLA)</li> <li>• Garlic / onions</li> <li>• Green tea / EGCG</li> <li>• Fish</li> <li>• Fish oil</li> <li>• Krill oil</li> <li>• Flaxseed meal</li> </ul>	<ul style="list-style-type: none"> <li>• Noni / noni juice</li> <li>• Vegetables</li> <li>• Fruits</li> <li>• Nuts and seeds</li> <li>• Cinnamon</li> <li>• Lecithin</li> <li>• Wheat / gluten</li> <li>• Coconut / MCT</li> </ul>
039	NUTRIENTS – MINERALS	
	<ul style="list-style-type: none"> <li>• Boron</li> <li>• Calcium</li> <li>• Chlorine</li> <li>• Chromium</li> <li>• Fluorine / fluoride</li> <li>• Iron</li> <li>• Iodine</li> <li>• Lithium</li> </ul>	<ul style="list-style-type: none"> <li>• Magnesium</li> <li>• Manganese</li> <li>• Molybdenum</li> <li>• Phosphorus</li> <li>• Selenium</li> <li>• Sodium / Potassium</li> <li>• Strontium</li> <li>• Trace minerals</li> </ul>

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040	NUTRIENTS – SUPPLEMENTS & OTHER	
	<ul style="list-style-type: none"> <li>• Alcohol</li> <li>• Alpha-lipoic acid (ALA)</li> <li>• Arginine</li> <li>• Ashwagandha</li> <li>• Berberine</li> <li>• Betaine</li> <li>• Bromelain</li> <li>• Caffeine</li> <li>• Caloric restriction</li> <li>• Carnitine / Acetyl-L-Carnitine</li> <li>• Chondroitin sulfate</li> <li>• Citrulline</li> <li>• Co-enzyme Q10</li> <li>• Curcumin / turmeric</li> <li>• L-Phenylalanine</li> <li>• DL-Phenylalanine – DLPA</li> <li>• EGCG – high dose</li> <li>• Ergothioneine</li> <li>• Garcinia cambogia</li> <li>• Glycine</li> <li>• Guggulu</li> <li>• Hawthorn</li> <li>• Inulin / chicory root L-theanine</li> </ul>	<ul style="list-style-type: none"> <li>• Lactobacillus reuteri</li> <li>• Larch arabinogalactan (ARA)</li> <li>• Lithium orotate</li> <li>• Lysine</li> <li>• Maca root</li> <li>• Magnolia officinalis</li> <li>• Methionine</li> <li>• N-acetylcysteine (NAC)</li> <li>• N-acetylglucosamine (NAG)</li> <li>• Naringenin</li> <li>• Oligoribonucleotides (ORN)</li> <li>• PQQ</li> <li>• Quercetin</li> <li>• Red wine, Resveratrol</li> <li>• Rhodiola rosea</li> <li>• S-adenosylmethionine (SAMe)</li> <li>• Salvia miltiorrhiza (Danshen)</li> <li>• Soy / soy protein</li> <li>• Yerba mate tea / extract</li> <li>• Taurine</li> <li>• Trehalose</li> <li>• Tryptophan</li> <li>• 5-HTP</li> </ul>
041	NUTRIENTS – VITAMINS	
	<ul style="list-style-type: none"> <li>• Choline</li> <li>• Beta-carotene, Vit. A retinol</li> <li>• Vitamin B1 (thiamine)</li> <li>• Vitamin B2 (riboflavin)</li> <li>• Vitamin B3 (niacin)</li> <li>• Vitamin B3 (niacinamide / nicotinamide)</li> <li>• Vitamin B3 (nicotinamide mononucleotide, NMN)</li> <li>• Vitamin B3 (nicotinamide riboside)</li> <li>• Vitamin B5 (pantothenic acid)</li> <li>• Vitamin B6 (pyridoxine)</li> <li>• Vitamin B6 (pyridoxal-5-phosphate)</li> <li>• Vitamin B9 (folic acid)</li> </ul>	<ul style="list-style-type: none"> <li>• Vitamin B9 (folates)</li> <li>• Vitamin B9 (calcium folinate)</li> <li>• Vitamin B9 (5-methyl tetrahydrofolate (5-THF))</li> <li>• Vitamin B12 (cobalamin)</li> <li>• Vitamin B12 (adenosyl / hydroxy)</li> <li>• Vitamin B12 (hydroxycobalamin)</li> <li>• Vitamin B12 (methylcobalamin)</li> <li>• Vitamin C</li> <li>• Vitamin E (d-alpha tocopherol)</li> <li>• Vitamin E (dl-alpha tocopherol)</li> <li>• Vitamin E (mixed tocopherols)</li> <li>• Vitamin K1 (phyloquinone, phytonadione)</li> <li>• Vitamin K2 (menaquinone, MK-4)</li> <li>• Vitamin K2 (menaquinone, MK-7)</li> </ul>

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<b>042</b>	<b>ONCOLOGY</b>	
	<ul style="list-style-type: none"> <li>• Bladder</li> <li>• Brain</li> <li>• Breast</li> <li>• ER+ breast</li> <li>• Cervical (cervix uteri)</li> <li>• Colorectal</li> <li>• Endometrial / uterine (corpus uteri)</li> <li>• Esophageal</li> <li>• Gallbladder</li> <li>• Glioblastoma</li> <li>• Glioma</li> <li>• Hepatocellular carcinoma</li> <li>• Kidney (renal cell and renal pelvis)</li> <li>• Leukemia (all types)</li> </ul>	<ul style="list-style-type: none"> <li>• Lung</li> <li>• Melanoma / skin</li> <li>• Meningioma</li> <li>• Non-Hodgkin's lymphoma (NHL)</li> <li>• Oral / lip</li> <li>• Ovarian</li> <li>• Pancreatic</li> <li>• Phase 1 enzymes</li> <li>• Phase 2 enzymes</li> <li>• Pituitary adenoma</li> <li>• Prostate</li> <li>• Stomach</li> <li>• Top tumor genes and functions</li> <li>• Thyroid</li> </ul>
<b>043</b>	<b>ONCOLOGY – BREAST</b>	
	<ul style="list-style-type: none"> <li>• Oncology – Breast</li> <li>• ER+</li> <li>• ER+ breast Adiponectin signaling</li> <li>• Angiogenesis / metastasis</li> <li>• Apoptosis network</li> <li>• Autophagy</li> <li>• BRCA1 / BRCA2</li> <li>• Chemo pharmacogenomics</li> </ul>	<ul style="list-style-type: none"> <li>• Chemobrain cognitive dysfunction Progesterone PROGINS</li> <li>• Notch signaling network</li> <li>• Proto-oncogene network</li> <li>• Radiation therapy</li> <li>• Tumor suppressor analysis</li> <li>• Upper aerodigestive cancers</li> <li>• Vitamin D-mediated network</li> <li>• Warburg Effect</li> </ul>
<b>044</b>	<b>ONCOLOGY – PROSTATE</b>	
	<ul style="list-style-type: none"> <li>• Oncology – Prostate</li> <li>• BRCA1 / BRCA2</li> <li>• Chemo pharmacogenomics</li> <li>• Chemobrain cognitive dysfunction</li> <li>• Radiation therapy</li> <li>• Vitamin D-mediated network</li> <li>• Tumor suppressor analysis</li> <li>• CYP19A1 analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Autophagy</li> <li>• Apoptosis network</li> <li>• North signaling network</li> <li>• Proto-oncogene network</li> <li>• Angiogenesis / metastasis</li> <li>• Warburg Effect</li> <li>• Selenium requirements</li> </ul>

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<b>045</b>	<b>ONCOLOGY – COLORECTAL</b>	
	<ul style="list-style-type: none"> <li>• Oncology – Colorectal</li> <li>• BRCA1 / BRCA2</li> <li>• Chemo pharmacogenomics</li> <li>• Chemobrain cognitive dysfunction</li> <li>• Radiation therapy</li> <li>• Vitamin D-mediated network</li> <li>• Tumor suppressor analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Oncology – microbiome</li> <li>• Autophagy</li> <li>• Apoptosis network</li> <li>• North signaling network</li> <li>• Proto-oncogene network</li> <li>• Angiogenesis / metastasis</li> <li>• Warburg Effect</li> </ul>
<b>046</b>	<b>ONCOLOGY – LUNG</b>	
	<ul style="list-style-type: none"> <li>• Oncology – Breast</li> <li>• BRCA1 / BRCA2</li> <li>• Chemo pharmacogenomics</li> <li>• Chemobrain cognitive dysfunction</li> <li>• Radiation therapy</li> <li>• Vitamin D-mediated network</li> <li>• Tumor suppressor analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Lung oxidation / redox</li> <li>• Autophagy</li> <li>• Apoptosis network</li> <li>• North signaling network</li> <li>• Proto-oncogene network</li> <li>• Angiogenesis / metastasis</li> <li>• Warburg Effect</li> <li>• Pulmonary fibrosis</li> </ul>
<b>047</b>	<b>ONCOLOGY – CERVICAL</b>	
	<ul style="list-style-type: none"> <li>• Oncology – Breast</li> <li>• BRCA1 / BRCA2</li> <li>• Chemo pharmacogenomics</li> <li>• Radiation therapy</li> <li>• Vitamin D-mediated network</li> <li>• Tumor suppressor analysis</li> <li>• HPV vaccine analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Autophagy</li> <li>• Apoptosis network</li> <li>• North signaling network</li> <li>• Proto-oncogene network</li> <li>• Angiogenesis / metastasis</li> <li>• Warburg Effect</li> </ul>
<b>048</b>	<b>PEDIATRICS</b>	
	<ul style="list-style-type: none"> <li>• Pre-pregnancy</li> <li>• Pregnancy / Breastfeeding</li> <li>• Family planning</li> <li>• Fertility and conception</li> <li>• Introduction of solid foods</li> </ul>	<ul style="list-style-type: none"> <li>• Post-partum &amp; nutrients</li> <li>• Post-partum depression</li> <li>• Infant needs</li> <li>• Supplements – mother</li> <li>• Supplements – infant</li> </ul>
<b>049</b>	<b>PHARMACOGENOMICS / PSYCHOTROPICS</b>	
	<ul style="list-style-type: none"> <li>• Antidepressants</li> <li>• Anxiolytics &amp; hypnotics</li> <li>• Antipsychotics</li> <li>• Mood stabilizers</li> <li>• Stimulants</li> <li>• Inflammatory networks</li> </ul>	<ul style="list-style-type: none"> <li>• Non-stimulants</li> <li>• Pharmacodynamics</li> <li>• Pharmacokinetics</li> <li>• Pharma: gene-drug interactions</li> <li>• Dopamine / serotonin analysis</li> <li>• Top recommended supplements</li> </ul>

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<b>050</b>	<b>PRE-OP WORKUP</b>	
	<ul style="list-style-type: none"> <li>• Thrombosis risk including: Factor II, V, R2, VIII, FGG, C, S</li> <li>• Tissue antioxidant status</li> <li>• Collagen / healing</li> <li>• Infection risk – general</li> <li>• Infection risk – pneumonia</li> </ul>	<ul style="list-style-type: none"> <li>• Infection risk – UTI</li> <li>• Infection risk – sepsis</li> <li>• Myocardial infarction risk</li> <li>• Oxygenation / RBC</li> <li>• Organ / tissue rejection / GVHD</li> <li>• Blood group analysis</li> </ul>
<b>051</b>	<b>STRUCTURAL</b>	
	<ul style="list-style-type: none"> <li>• Bone density / osteoporosis</li> <li>• Muscle / tendon / ligament</li> <li>• Collagen</li> </ul>	<ul style="list-style-type: none"> <li>• Dental caries</li> <li>• Gingivitis / periodontal disease</li> <li>• Growth / developmental</li> </ul>
<b>052</b>	<b>VACCINES (NOT INCLUDING COVID-19)</b>	
	<ul style="list-style-type: none"> <li>• Vaccines – general</li> <li>• Vaccines – response, reactions, titers summary</li> <li>• Vaccines – general detox</li> <li>• Vaccines – DTap</li> <li>• Vaccines – MMR</li> <li>• Vaccines – HepA</li> <li>• Vaccines – HepB</li> </ul>	<ul style="list-style-type: none"> <li>• Vaccines – HIB</li> <li>• Vaccines – HPV / Gardasil</li> <li>• Vaccines – Polio</li> <li>• Vaccines – Meningococcal</li> <li>• Vaccines – Pneumococcal</li> <li>• Vaccines – Varicella / chicken pox</li> <li>• Vaccines – typhoid</li> <li>• Vaccines – BCG / TB</li> </ul>
<b>053</b>	<b>VEGETARIAN / VEGAN</b>	
	<ul style="list-style-type: none"> <li>• Protein requirements</li> <li>• Choline requirements</li> <li>• Tyrosine requirements</li> <li>• Vitamin A retinol requirements</li> <li>• CLA requirements</li> <li>• Fish requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Mediterranean diet analysis</li> <li>• Low fat diet genomics</li> <li>• Dairy requirements</li> <li>• HDL / LDL cholesterol analysis</li> <li>• Fish oil / krill oil</li> <li>• Vitamin B12 requirements</li> </ul>
<b>054</b>	<b>OTHER</b>	
	<ul style="list-style-type: none"> <li>• UVB phototherapy</li> <li>• Infrared phototherapy</li> <li>• Ancestral genomics</li> <li>• Ancestral immune</li> </ul>	<ul style="list-style-type: none"> <li>• Electromagnetic sensitivity</li> <li>• Blood groups / Lewis subtypes</li> <li>• Vision / Macular Degeneration</li> <li>• Rare variants</li> </ul>

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