Gut Zoomer

The Gut Zoomer evaluates a broad range of gut and gut–brain markers to characterize microbial balance, digestive function, barrier integrity, immune activity, metabolic byproducts, and neurochemical signaling. The marker set is designed to capture both upstream gut drivers and downstream functional effects, helping clinicians assess how microbial and intestinal patterns influence inflammation, metabolism, nervous system signaling, and whole-body symptom expression.

Gut Commensals Risk

- Autoimmune Health
- Cardiovascular Health
- Hormones
- Inflammatory Bowel Disease (IBD)
- Intestinal Gas
- Intestinal Permeability
- Irritable Bowel Syndrome (IBS)
- Keystone Health
- Liver Health
- Metabolic Health
- Neurological Health
- Nutrition
- Probiotic Health
- SIBO

Gut Pathogens

28 Bacteria

- *Aeromonas* spp.
- *Bacillus cereus*
- *Campylobacter coli*
- *Campylobacter jejuni*
- *Campylobacter* spp.
- *Campylobacter upsaliensis*
- *Clostridium difficile*
- *Clostridium difficile* Toxin A
- *Clostridium difficile* Toxin B
- *Clostridium perfringens*
- *E. coli* O157
- *Edwardsiella tarda*
- Enteroaggregative *E. coli* (EAEC)
- Enteropathogenic *E. coli* (EPEC)
- Enterotoxigenic *E. coli* (ETEC) LT/ST
- *Helicobacter pylori*
- *Klebsiella pneumoniae*
- *Listeria*
- Non-*pylori Helicobacter* spp.
- *Plesiomonas shigelloides*
- *Salmonella*
- Shiga-like toxin-producing *E. coli* (STEC) Stx1/Stx2
- *Shigella*/EIEC
- *Staphylococcus aureus*
- *Vibrio cholerae*
- *Vibrio parahaemolyticus*
- *Vibrio vulnificus*
- *Yersinia enterocolitica*

14 Protozoans

- *Balantidium coli*
- *Blastocystis hominis*
- *Chilomastix mesnili*
- *Cryptosporidium*
- *Cyclospora cayetanensis*
- *Cyclospora spp.*
- *Dientamoeba fragilis*
- *Endolimax nana*
- *Entamoeba coli*
- *Entamoeba histolytica*
- *Giardia lamblia*
- *Isospora belli*
- *Pentatrichomonas hominis*
- *Trichomonas hominis*

15 Helminths

- *Ancylostoma duodenale*
- *Ascaris lumbricoides*
- *Diphyllobothrium latum*
- *Dipylidium caninum*
- *Enterobius vermicularis*
- *Fasciola/Fasciolopsis*
- *Hymenolepis*
- Larval nematode
- *Mansonella*
- *Necator americanus*
- *Schistosoma*
- *Strongyloides stercoralis*
- *Taenia solium*
- *Taenia spp.*
- *Trichuris trichiura*

6 Fungi

- *Candida albicans*
- *Candida glabrata*
- *Candida* spp.
- *Geotrichum* spp.
- *Microsporidium* spp.
- *Rodotorula* spp.

13 Viruses

- Adenovirus F40/41
- Astrovirus
- Cytomegalovirus
- Enterovirus
- Epstein Barr virus
- Human Bocavirus
- Norovirus GI Virus
- Norovirus GII Virus
- Rotavirus A
- Sapovirus I
- Sapovirus II
- Sapovirus IV
- Sapovirus V

Gut Diversity Indices

- Shannon's Diversity Index
- Simpson's Diversity Index
- Firmicutes/Bacteroidetes
- Prevotella /Bacteroidetes (P/B)

Digestion & Immune

- Fecal Immunochemical Test (FIT)
- Fecal Zonulin (ng/mL)
- Pancreatic elastase 1 (mcg/g)
- pH
- Secretory IgA (mcg/g)

Gut Metabolites

- ß-glucuronidase (U/mL)

Bile Acids

- Cholic acid (CA) (%)
- Chenodeoxycholic acid (CDCA) (%)
- Deoxycholic acid (DCA) (%)
- Lithocholic acid (LCA) (%)
- LCA/DCA ratio

Short Chain Fatty Acids

- Acetate (%)
- Butyrate (%)
- Propionate (%)
- Valerate (%)
- Total SCFA (mmol/g)

Gut Inflammatory Markers

- Beta defensin 2 (ng/mL)
- Calprotectin (mcg/g)
- Fecal Eosinophil Protein X (mcg/g)
- Fecal lactoferrin (mcg/ml)
- Lysozyme (ng/mL)
- MMP 9 (ng/mL)
- S100A12 (mcg/ml)

Gut Antibodies

- Tissue transglutaminase (tTg)
- Deamidated gliadin peptide (DGP)
- Fecal Anti Gliadin
- Actin antibody
- Lipopolysaccharide (LPS) antibody
- Anti-Saccharomyces cerevisiae antibody (ASCA)

Malabsorption

- Meat fiber
- Vegetable fiber

Fat Malabsorption

- Total Fecal Fat (mg/g)
- Total Fecal Triglycerides (mg/g)
- Long chain fatty acids (mg/g)
- Total Cholesterol (mg/g)
- Total Phospholipids (mg/g)

Gut Commensals

Gut Commensals - Gut Microbiome

- *Acinetobacter*
- *Actinomyces*
- *Akkermansia muciniphila*
- *Alistipes*
- *Alloprevotella*
- *Atopobium*
- *Atopobium parvulum*
- *Bacillus subtilis*
- *Bacteroidales*
- *Bacteroides*
- *Bacteroides caccae*
- *Bacteroides vulgatus*
- *Bifidobacterium*
- *Bifidobacterium adolescentis*
- *Bifidobacterium animalis*
- *Bifidobacterium animalis subspecies lactis*
- *Bifidobacterium catenulatum*
- *Blautia*
- *Blautia hydrogenotrophica*
- *Bradyrhizobiaceae*
- *Butyricimonas*
- *Butyrivibrio*
- *Catenibacterium*
- *Christensenella minuta*
- *Clostridia cluster IV*
- *Clostridia cluster XIVa*
- *Clostridia cluster XVIII*
- *Clostridiales Family XIV incertae sedis*
- *Clostridiales Incertae Sedis IV*
- *Clostridium*
- *Clostridium hathewayi*
- *Clostridium ramosum*
- *Clostridium symbiosum*
- *Collinsella*
- *Coprococcus*
- *Desulfovibrio*
- *Desulfovibrio piger*
- *Dialister invisus*
- *Dorea*
- *Eggerthella lenta*
- *Enterobacter aerogenes*
- *Enterobacteria*
- *Enterobacteriaceae*
- *Enterococcus*
- *Enterococcus gallinarum*
- *Escherichia coli*
- *Eubacterium*
- *Eubacterium rectale*
- *Faecalibacterium prausnitzii*
- *Fusobacterium*
- *Haemophilus*
- *Hafnia*
- *Holdemania*
- *Lachnospiraceae*
- *Lactobacillaceae*
- *Lactobacillus*
- *Lactobacillus animalis*
- *Lactobacillus ruminis*
- *Lactobacillus sakei*
- *Lactococcus*
- *Leuconostoc*
- *Marvinbryantia*
- *Methanobrevibacter smithii*
- *Mycoplana*
- *Oscillospira*
- *Parabacteroides*
- *Pediococcus*
- *Peptostreptococcus*
- *Phascolarctobacterium*
- *Porphyromonas gingivalis*
- *Prevotella*
- *Prevotella copri*
- *Propionibacterium freudenreichi*
- *Proteus mirabilis*
- *Pseudobutyrivibrio*
- *Pseudomonas*
- *Roseburia*
- *Roseburia intestinalis*
- *Ruminococcaceae*
- *Ruminococcus*
- *Ruminococcus bromii*
- *Ruminococcus gnavus*
- *Ruminococcus obeum*
- *Solobacterium moorei*
- *Staphylococcaceae*
- *Staphylococcus epidermidis*
- *Staphylococcus pasteuri*
- *Staphylococcus species*
- *Tyzzerella*
- *Tyzzerella 4*
- *Veillonella*
- *Veillonellaceae*
- *β-galactosidase producing bacteria*
- *β-glucuronidase producing bacteria*

Gut Commensals - Probiotic Organisms

- *Bacillus coagulans*
- *Bifidobacterium bifidum*
- *Bifidobacterium breve*
- *Bifidobacterium dentium*
- *Bifidobacterium infantis*
- *Bifidobacterium longum*
- *Escherichia coli Nissle*
- *Lactobacillus acidophilus*
- *Lactobacillus brevis*
- *Lactobacillus bulgaricus*
- *Lactobacillus casei*
- *Lactobacillus fermentum*
- *Lactobacillus paracasei*
- *Lactobacillus plantarum*
- *Lactobacillus reuteri*
- *Lactobacillus rhamnosus*
- *Lactobacillus rhamnosus GG*
- *Lactobacillus salivarius*
- *Saccharomyces boulardii*
- *Streptococcus*
- *Streptococcus thermophilus*

Dopaminergic Pathway

- PEA (Phenylethylamine)
- Dopamine
- DOPAC
- HVA
- Normetanephrine
- VMA
- 3-Methoxy-tyramine
- Metanephrine
- Tyrosine
- Tyramine
- L-DOPA
- HVA / VMA Ratio
- HVA / DOPAC Ratio

Tryptamine Pathway

- Tryptamine

Other Pathways

- Glycine
- Taurine
- Acetylcholine
- Aspartate
- Serine
- Oxytocin

Kynurenine Pathway

- Xanthurenic acid
- Quinolinic acid
- Kynurenic acid
- Quinolinic Acid / 5-HIAA Ratio

Serotonergic Pathway

- Serotonin
- 5-HIAA
- 5-HTP
- Tryptophan

GABAergic Pathway

- GABA
- Glutamate

Histaminergic Pathway

- Histamine

Resistance Genes

- Helicobacter - Clarithromycin
- Helicobacter - Fluoroquinolones
- Fluoroquinolones
- Vancomycin
- b-lactamase
- Macrolides
- Tetracycline
- Aminoglycoside
- Bactrim
- Carbapenem
- Rifampin
- Polymyxins

Gut Phyla

- Proteobacteria
- Actinobacteria
- Fusobacteria
- Bacteroidetes
- Firmicutes
- Euryarchaeota
- Verrucomicrobia