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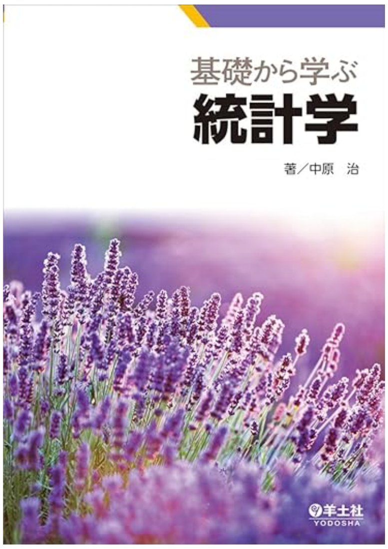

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[illegible] Science Translational Medicine[illegible]

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Diet shapes the metabolite profile in the intact human ileum, which affects PYY release

https://www.science.org/doi/10.1126/scitranslmed.adm8132

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Dietary fiber alleviates alcoholic liver injury via *Bacteroides acidifaciens* and subsequent ammonia detoxification

https://www.sciencedirect.com/science/article/abs/pii/S1931312824002269?via%3Dihub

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Dietary fibre directs microbial tryptophan metabolism via metabolic interactions in the gut microbiota

https://www.nature.com/articles/s41564-024-01737-3

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Microbial community-scale metabolic modelling predicts personalized short-chain fatty acid production profiles in the human gut

https://www.nature.com/articles/s41564-024-01728-4

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[illegible] Cell Host & Microbe[illegible]

[illegible]Megamonas rupellensis[illegible]

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Obesity-enriched gut microbe degrades myo-inositol and promotes lipid absorption

https://www.cell.com/cell-host-microbe/abstract/S1931-3128(24)00230-0

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A maternal brain hormone that builds bone

https://www.nature.com/articles/s41586-024-07634-3

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Effects of diets on risks of cancer and the mediating role of metabolites

https://www.nature.com/articles/s41467-024-50258-4

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[illegible] International Journal of Obesity[illegible]

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Skin carotenoid scores and metabolic syndrome in a general Japanese population: the Hisayama study

https://www.nature.com/articles/s41366-024-01575-7

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The microbiota drives diurnal rhythms in tryptophan metabolism in the stressed gut

https://www.cell.com/cell-reports/fulltext/S2211-1247(24)00407-8

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Diurnal rhythmicity of infant fecal microbiota and metabolites: A randomized controlled interventional trial with infant formula

https://www.sciencedirect.com/science/article/pii/S1931312824000581

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Cell Metabolism

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Dysfunctional circadian clock accelerates cancer metastasis by intestinal microbiota triggering accumulation of myeloid-derived suppressor cells

https://www.cell.com/cell-metabolism/abstract/S1550-4131(24)00172-4

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https://www.frontiersin.org/journals/nutrition/articles/10.3389/fnut.2024.1419978/full

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[illegible] Nature Aging[illegible]

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Targeting senescence induced by age or chemotherapy with a polyphenol-rich natural extract improves longevity and healthspan in mice

https://www.nature.com/articles/s43587-024-00663-7

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Functional multi-organelle units control inflammatory lipid metabolism of macrophages

https://www.nature.com/articles/s41556-024-01457-0

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Multikingdom and functional gut microbiota markers for autism spectrum disorder

https://www.nature.com/articles/s41564-024-01739-1

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Lipidome changes due to improved dietary fat quality inform cardiometabolic risk reduction and precision nutrition

https://www.nature.com/articles/s41591-024-03124-1

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[illegible] Nature Metabolism[illegible]

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Towards nutrition with precision: unlocking biomarkers as dietary assessment tools

https://www.nature.com/articles/s42255-024-01067-y

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Proteomic predictors of individualized nutrient-specific insulin secretion in health and disease

https://www.sciencedirect.com/science/article/pii/S0002916524003897

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Dietary fiber alleviates alcoholic liver injury via *Bacteroides acidifaciens* and subsequent ammonia detoxification

https://www.sciencedirect.com/science/article/abs/pii/S1931312824002269?via%3Dihub

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Personalized drug screening using patient-derived organoid and its clinical relevance in gastric cancer

https://www.cell.com/cell-reports-medicine/fulltext/S2666-3791(24)00331-8

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A modified Mediterranean-style diet enhances brain function via specific gut-microbiome-brain mechanisms

https://www.tandfonline.com/doi/full/10.1080/19490976.2024.2323752

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Ketogenic diet-induced bile acids protect against obesity through reduced calorie absorption

https://www.nature.com/articles/s42255-024-01072-1

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Ketogenic diet induces p53-dependent cellular senescence in multiple organs

https://www.science.org/doi/10.1126/sciadv.ado1463

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[illegible] BMC Medicine[illegible]

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Effects of ketogenic diet on health outcomes: an umbrella review of meta-analyses of randomized clinical trials

https://bmcmedicine.biomedcentral.com/articles/10.1186/s12916-023-02874-y

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Adherence to a planetary health diet, genetic susceptibility, and incident cardiovascular disease: a prospective cohort study from the UK Biobank

https://www.sciencedirect.com/science/article/abs/pii/S0002916524005860

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Planetary Health Diet Index and risk of total and cause-specific mortality in three prospective cohorts

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Adherence to the planetary health diet and cognitive decline: findings from the ELSA-Brasil study

https://www.nature.com/articles/s43587-024-00666-4

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Gut microbiota signatures of vulnerability to food addiction in mice and humans

https://gut.bmj.com/content/early/2024/05/17/gutjnl-2023-331445.long

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[illegible] Cell[illegible]

[illegible]IL-17A[illegible]IL-23R[illegible]

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Preclinical proof of principle for orally delivered Th17 antagonist miniproteins

https://www.cell.com/cell/fulltext/S0092-8674(24)00631-7

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Alfa Fold3[illegible]

[illegible]RoseTTAFold All-Atom[illegible]

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[illegible]Th17[illegible]

[illegible] Cell Host & Microbe[illegible]

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Multi-omics signatures reveal genomic and functional heterogeneity of *Cutibacterium acnes* in normal and diseased skin

https://www.sciencedirect.com/science/article/abs/pii/S1931312824001963?via%3Dihub

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[illegible] Nature Metabolism[illegible]

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Ketogenic diet-induced bile acids protect against obesity through reduced calorie absorption

https://www.nature.com/articles/s42255-024-01072-1

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[illegible]D[illegible] Cell Reports[illegible]

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Hepatocyte vitamin D receptor functions as a nutrient sensor that regulates energy storage and tissue growth in zebrafish

https://www.cell.com/cell-reports/fulltext/S2211-1247(24)00721-6

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2024[illegible]7[illegible]3[illegible]/[illegible]4[illegible]

[illegible] Nature Communications [illegible]

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Dietary L-Glu sensing by enteroendocrine cells adjusts food

intake via modulating gut PYY/NPF secretion

https://www.nature.com/articles/s41467-024-47465-4

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Interaction between the gut microbiota and colonic enteroendocrine cells regulates host metabolism

https://www.nature.com/articles/s42255-024-01044-5

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[illegible] Nature Microbiology[illegible]

[illegible]mGluR2[illegible]

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Influenza virus uses mGluR2 as an endocytic receptor to enter cells

https://www.nature.com/articles/s41564-024-01713-x

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[illegible]mGluR2[illegible]potassium calcium-activated channel subfamily M alpha 1 (KCa1.1)[illegible]

mGluR2[illegible]

[illegible]mGluR2[illegible]

[illegible]CD8+T[illegible] Science Advances[illegible]

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^{13}C metabolite tracing reveals glutamine and acetate as critical in vivo fuels for CD8 T cells

https://www.science.org/doi/10.1126/sciadv.adj1431

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[illegible] Nature Microbiology[illegible]

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Dietary fibre directs microbial tryptophan metabolism via metabolic interactions in the gut microbiota

https://www.nature.com/articles/s41564-024-01737-3

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Microbial community-scale metabolic modelling predicts personalized short-chain fatty acid production profiles in the human gut

https://www.nature.com/articles/s41564-024-01728-4

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[illegible] Nature Medicine[illegible]

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Strain-specific gut microbial signatures in type 2 diabetes identified in a cross-cohort analysis of 8,117 metagenomes

https://www.nature.com/articles/s41591-024-03067-7

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[illegible]AI Food Chemistry[illegible]

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Fusing ^{1}H NMR and Raman experimental data for the improvement of wine recognition models

https://www.sciencedirect.com/science/article/pii/S0308814624018958

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Paternal and induced gut microbiota seeding complement mother-to-infant transmission

https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(24)00176-8

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[illegible] Science Translational Medicine[illegible]

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Diet shapes the metabolite profile in the intact human ileum, which affects PYY release

https://www.science.org/doi/10.1126/scitranslmed.adm8132

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Brain responses to intermittent fasting and the healthy living diet in older adults

https://www.sciencedirect.com/science/article/abs/pii/S1550413124002250

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II[illegible]5:2[illegible]2 [illegible]

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A 5:2 Intermittent Fasting Meal Replacement Diet and Glycemic Control for Adults With Diabetes: The EARLY Randomized Clinical Trial

https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2820237

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Bitter taste receptor activation by cholesterol and an intracellular tastant

https://www.nature.com/articles/s41586-024-07253-y

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Unsaturated bond recognition leads to biased signal in a fatty acid receptor

https://www.science.org/doi/10.1126/science.add6220

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Orphan receptor GPR158 serves as a metabotropic glycine receptor: mGlyR

https://www.science.org/doi/10.1126/science.add7150

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Principal component-based clinical aging clocks identify signatures of healthy aging and targets for clinical intervention

https://www.nature.com/articles/s43587-024-00646-8

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Resolvin D1 delivery to lesional macrophages using antioxidative black phosphorus nanosheets for atherosclerosis treatment

https://www.nature.com/articles/s41565-024-01687-1

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Correction of age-associated defects in dendritic cells enables CD4$^+$ T cells to eradicate tumors

https://www.cell.com/cell/abstract/S0092-8674(24)00535-X

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[illegible] Nature Communications[illegible]

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Faecal microbiota of schoolchildren is associated with nutritional status and markers of inflammation: a double-blinded cluster-randomized controlled trial using multi-micronutrient fortified rice

https://www.nature.com/articles/s41467-024-49093-4

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Sleep loss diminishes hippocampal reactivation and replay

https://www.nature.com/articles/s41586-024-07538-2

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Dysfunctional circadian clock accelerates cancer metastasis by intestinal microbiota triggering accumulation of myeloid-derived suppressor cells

https://www.cell.com/cell-metabolism/abstract/S1550-4131(24)00172-4

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An unbiased ranking of murine dietary models based on their

proximity to human metabolic dysfunction-associated steatotic liver disease (MASLD)

https://www.nature.com/articles/s42255-024-01043-6

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Real-time monitoring of vegetable oils photo-oxidation kinetics using differential photocalorimetry

https://www.sciencedirect.com/science/article/pii/S0308814624016613

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Gut-microbiome-expressed 3β-hydroxysteroid dehydrogenase degrades estradiol and is linked to depression in premenopausal females

https://www.sciencedirect.com/science/article/pii/S1550413123000530

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[illegible]*Mycobacterium neoaurum*[illegible]

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3β-Hydroxysteroid dehydrogenase expressed by gut microbes degrades testosterone and is linked to depression in males

https://www.sciencedirect.com/science/article/pii/S1931312822000373

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Gut bacteria convert glucocorticoids into progestins in the presence of hydrogen gas

https://www.sciencedirect.com/science/article/abs/pii/S0092867424005142

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[illegible] European Heart Journal[illegible]

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Xylitol is prothrombotic and associated with cardiovascular risk

https://academic.oup.com/eurheartj/advance-article-abstract/doi/10.1093/eurheartj/ehae244/7683453

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[illegible] Nature Microbiology[illegible]

[illegible]mGluR2[illegible]

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Influenza virus uses mGluR2 as an endocytic receptor to enter cells

https://www.nature.com/articles/s41564-024-01713-x

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[illegible]2[illegible]potassium calcium-activated channel subfamily M alpha 1 (KCa1.1)[illegible]metabotropic glutamate receptor subtype 2 (mGluR2) [illegible]

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***Fatty acid desaturase* insertion-deletion polymorphism rs66698963 predicts colorectal polyp prevention by the *n*-3 fatty acid eicosapentaenoic acid: A secondary analysis of the seAFOod polyp prevention trial**

https://ajcn.nutrition.org/article/S0002-9165(24)00527-6/fulltext

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Modulation of cream cheese physicochemical and functional properties with ultrafiltration and calcium reduction

https://www.sciencedirect.com/science/article/pii/S0308814624016601

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Accelerated biological aging six decades after prenatal famine exposure

https://www.pnas.org/doi/full/10.1073/pnas.2319179121

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The browning and mobilization of subcutaneous white adipose tissue supports efficient skin repair

https://www.sciencedirect.com/science/article/abs/pii/S1550413124001815

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Processes influencing the toxicity of microplastics ingested through the diet

https://www.sciencedirect.com/science/article/pii/S0308814624015978

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Discovery of antimicrobial peptides in the global microbiome with machine learning

https://www.cell.com/cell/fulltext/S0092-8674(24)00522-1

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Temporal dynamics of the multi-omic response to endurance exercise training

https://www.nature.com/articles/s41586-023-06877-w

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The mitochondrial multi-omic response to exercise training across rat tissues

https://www.cell.com/cell-metabolism/fulltext/S1550-4131(23)00472-2

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Sexual dimorphism and the multi-omic response to exercise training in rat subcutaneous white adipose tissue

https://www.nature.com/articles/s42255-023-00959-9

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The impact of exercise on gene regulation in association with complex trait genetics

https://www.nature.com/articles/s41467-024-45966-w

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Epigenetic inheritance of diet-induced and sperm-borne mitochondrial RNAs

https://www.nature.com/articles/s41586-024-07472-3

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Nanotechnology[illegible]

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Oral mitochondrial transplantation using nanomotors to treat ischaemic heart disease

https://www.nature.com/articles/s41565-024-01681-7

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Personalized metabolic whole-body models for newborns and infants predict growth and biomarkers of inherited metabolic diseases

https://www.cell.com/cell-metabolism/fulltext/S1550-4131(24)00182-7

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Mediterranean Diet Adherence and Risk of All-Cause Mortality in Women

https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2819335

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[illegible]Lolamicin[illegible]

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A Gram-negative-selective antibiotic that spares the gut microbiome

https://www.nature.com/articles/s41586-024-07502-0

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[illegible]*Salmonella* Typhimurium[illegible]

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***Salmonella* Typhimurium expansion in the inflamed murine gut is dependent on aspartate derived from ROS-mediated microbiota lysis**

https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(24)00142-2

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^{13}C metabolite tracing reveals glutamine and acetate as critical in vivo fuels for CD8 T cells

https://www.science.org/doi/10.1126/sciadv.adj1431

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A single-blinded, randomized, parallel intervention to evaluate genetics and omics-based personalized nutrition in general population via an e-commerce tool: The PREVENTOMICS e-commerce study

https://ajcn.nutrition.org/article/S0002-9165(24)00515-X/abstract

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Gut bacteria convert glucocorticoids into progestins in the presence of hydrogen gas

https://www.sciencedirect.com/science/article/abs/pii/S0092867424005142

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Interaction between the gut microbiota and colonic enteroendocrine cells regulates host metabolism

https://www.nature.com/articles/s42255-024-01044-5

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Curcumin supplementation alleviates hepatic fat content associated with modulation of gut microbiota-dependent bile acid metabolism in patients with non-alcoholic simple fatty liver disease: a randomized controlled trial

https://ajcn.nutrition.org/article/S0002-9165(24)00482-9/abstract

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Longitudinal associations of skipping breakfast and night eating with 4-year changes in weight and waist circumference among Chinese adults

https://ajcn.nutrition.org/article/S0002-9165(24)00515-X/abstract

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Paternal dietary macronutrient balance and energy intake drive metabolic and behavioral differences among offspring

https://www.nature.com/articles/s41467-024-46782-y

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Paternal microbiome perturbations impact offspring fitness

https://www.nature.com/articles/s41586-024-07336-w

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Epigenetic inheritance of diet-induced and sperm-borne mitochondrial RNAs

https://www.nature.com/articles/s41586-024-07472-3

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Quantitative analysis of metabolic fluxes in brown fat and skeletal muscle during thermogenesis

https://www.nature.com/articles/s42255-023-00825-8

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Senescent immune cells accumulation promotes brown adipose tissue dysfunction during aging

https://www.nature.com/articles/s41467-023-38842-6

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[illegible]Cell Reports Medicine[illegible]

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Gut microbiome modified by bariatric surgery improves insulin sensitivity and correlates with increased brown fat activity and energy expenditure

https://www.sciencedirect.com/science/article/pii/S2666379123001659

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BCAA-nitrogen flux in brown fat controls metabolic health independent of thermogenesis

https://www.cell.com/cell/fulltext/S0092-8674(24)00346-5

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[illegible] Nature Communications

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Antioxidant hepatic lipid metabolism can be promoted by orally administered inorganic nanoparticles

https://www.nature.com/articles/s41467-023-39423-3

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[illegible]Bifidobacterium longum[illegible]B.longum[illegible]

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Artificial-enzymes-armed *Bifidobacterium longum* probiotics for alleviating intestinal inflammation and microbiota dysbiosis

https://www.nature.com/articles/s41565-023-01346-x

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Single-site iron-anchored amyloid hydrogels as catalytic platforms for alcohol detoxification

https://www.nature.com/articles/s41565-024-01657-7

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GDF15 promotes weight loss by enhancing energy expenditure in muscle

https://www.nature.com/articles/s41586-023-06249-4

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GDF15 enhances body weight and adiposity reduction in obese mice by leveraging the leptin pathway

https://www.cell.com/cell-metabolism/abstract/S1550-4131(23)00219-X

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GDF15 increases insulin action in the liver and adipose tissue via a β-adrenergic receptor-mediated mechanism

https://www.sciencedirect.com/science/article/abs/pii/S1550413123002267

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Tumor-derived GDF-15 blocks LFA-1 dependent T cell recruitment and suppresses responses to anti-PD-1 treatment

https://www.nature.com/articles/s41467-023-39817-3

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GDF15[illegible]Nature

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GDF15 linked to maternal risk of nausea and vomiting during pregnancy

https://www.nature.com/articles/s41586-023-06921-9

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[illegible]Cell Reports

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The microbiota drives diurnal rhythms in tryptophan metabolism in the stressed gut

https://www.cell.com/cell-reports/fulltext/S2211-1247(24)00407-8

Cell Host & Microbe

Diurnal rhythmicity of infant fecal microbiota and metabolites: A randomized controlled interventional trial with infant formula

https://www.sciencedirect.com/science/article/pii/S1931312824000581

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Nature Metabolism

Maternal circadian rhythm disruption affects neonatal

inflammation via metabolic reprograming of myeloid cells

https://www.nature.com/articles/s42255-024-01021-y

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Circadian tumor infiltration and function of CD8$^+$ T cells dictate immunotherapy efficacy

https://www.cell.com/cell/fulltext/S0092-8674(24)00410-0

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