[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]BtoC[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]→[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]BtoC[illegible]…

[illegible]

[illegible]

[illegible]

[illegible]…

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]…[illegible]

[illegible]SNS[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

□

□□□

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]14[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]


WORLD INTEC
RESEARCH ASSISTANT
理系知識・実験経験を
活かすチャンス！
理系研究職 積極募集中！
WORLD INTEC

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□RA□□□□□□□□□□□□□□□□□□□□□□□□
□□

□[□□□□□□□□□□□□□□□□□□□□□□□□RA□]

WORLD INTEC
RESEARCH ASSISTANT
研究者に多様性を
未経験から目指せる
憧れの研究職へ！
WORLD INTEC
理系研究職 積極募集中！

□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□

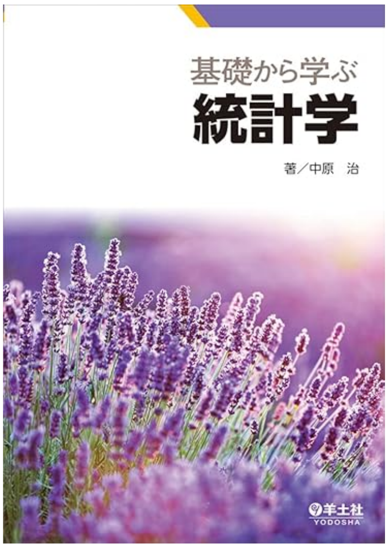
□

[illegible]1[illegible]

[illegible]

[illegible]↓

[illegible]



[illegible] [illegible] ([illegible])

[illegible]. . .[illegible]
10[illegible]“[illegible]”[illegible]

Amazon[illegible]

2024[illegible]7[illegible]24[illegible]4[illegible]

[illegible]3[illegible]

[illegible]

2024[illegible]7[illegible]24[illegible]4[illegible]

[illegible] Science Translational Medicine[illegible]

[illegible]1[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]

[illegible]peptide YY (PYY)[illegible]=[illegible]

[illegible]L[illegible]PYY[illegible]

[illegible] Cell Host & Microbe[illegible]

2[illegible]

[illegible]

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

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

NASH[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]*Bacteroides acidifaciens*[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Nature

Microbiology

3

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

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

Nature Microbology

4

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]MCMM[illegible]ex vivo[illegible]

[illegible]

[illegible]/[illegible]

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]19[illegible]4[illegible]

[illegible]2024[illegible]7[illegible]4[illegible]

[illegible]

2024[illegible]7[illegible]19[illegible]4[illegible]

[illegible] Cell Host & Microbe[illegible]

[illegible]Megamonas rupellensis[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]*Megamonas rupellensis*[illegible]

Megamonas rupellensis[illegible]

[illegible]

[illegible] Nature[illegible]

[illegible]

[illegible]

A maternal brain hormone that builds bone

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

[illegible]

[illegible]

[illegible]cellular communication network factor 3 (CCN3)[illegible]

[illegible]CCN3[illegible]

[illegible]

[illegible]

[illegible] Nature Communications[illegible]

[illegible]

[illegible]

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

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

UK

⇒

3 10 3

3

International Journal of Obesity

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

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

≒

40 1600 ≒

□□□□□□□□□□□□□□□□□□

□□□

□□

□□□□

□□□□□□□□□□□□□□□

□□

□□□

□

□□□□□□

□□□□□□□

2024□7□17□□□□□□□□□□□□□□□□□□□□□□□3□

□□□

□□

□□

2024□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□

[illegible]

2024[illegible]7[illegible]17[illegible]3[illegible] [illegible] Cell Reports [illegible]

[illegible]1[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]2[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Cell Host & Microbe[illegible]

2[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]0-1[illegible]

[illegible]

[illegible]or[illegible]or[illegible]±[illegible]or[illegible]

[illegible]

[illegible]*Veillonella*[illegible]*Bacteroides* [illegible]*Bifidobacterium*[illegible]*Streptococcus*[illegible]*Clostridium*[illegible]OTU[illegible]

[illegible]in vitro[illegible]

[illegible] Cell Metabolism[illegible]

3[illegible]

[illegible]

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

[illegible]

[illegible]2[illegible]

[illegible]

[illegible]

[illegible]

[illegible]MDSC[illegible]CD8T[illegible]MDSC[illegible]

[illegible]MDSC[illegible]

[illegible]

[illegible]3[illegible]

[illegible]2[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]RCT[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Result[illegible]

[illegible]

[illegible]

[illegible]RCT[illegible]2024[illegible]6[illegible]Frontiers in Nutrition[illegible]

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

[illegible]

[illegible]

[illegible]title[illegible]Abstract[illegible]

[illegible]

[illegible]Discussion[illegible]Limitation[illegible]Method[illegible]Result[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]1[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]RCT[illegible]

[illegible]8[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]X[illegible]A[illegible]

[illegible]RCT[illegible]X[illegible]A[illegible]X[illegible]A[illegible]2[illegible]

[illegible]

[illegible]A[illegible]

[illegible]2[illegible]Y[illegible]B[illegible]Z[illegible]

[illegible]Y[illegible]B[illegible]B[illegible]

[illegible]B[illegible]Y[illegible]Y[illegible]

[illegible]B[illegible]Z[illegible]Z[illegible]Y[illegible]

[illegible]Z[illegible]B[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]RCT[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]15[illegible]4[illegible]

[illegible]2024[illegible]6[illegible]7[illegible]4[illegible]

[illegible]

2024[illegible]7[illegible]15[illegible]4[illegible]

[illegible] Nature Aging[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Salvia haenkei[illegible]Haenkenium [illegible]

[illegible]-7-O-[illegible]p16-CDK6[illegible]

[illegible]

[illegible]

[illegible] Nature Cell

Biology

6OrgaPlexing

Functional multi-organelle units control inflammatory lipid metabolism of macrophages

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

6OrgaPlexing

6

LPS

–––

PGE2

Nature Microbiology

1600ASD

Multikingdom and functional gut microbiota markers for autism spectrum disorder

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

[illegible]1600[illegible]

[illegible]

[illegible]

[illegible]

[illegible]AUC=0.91[illegible]B1[illegible]

[illegible] Nature Medicine[illegible]

[illegible]MLS[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]MLS[illegible]multilipid score[illegible]

MLS[illegible]=[illegible]

[illegible]MLS[illegible]MLS[illegible]

[illegible]MLS[illegible]MLS[illegible]

[illegible]MLS[illegible]

[illegible]⇒[illegible]MLS[illegible]⇒[illegible]

[illegible]MLS[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]12[illegible]
[illegible]4[illegible]

[illegible]2024[illegible]7[illegible]4[illegible]

[illegible]

2024[illegible]7[illegible]12[illegible]4[illegible]

[illegible] Nature Metabolism[illegible]

[illegible]

[illegible]

Towards nutrition with precision: unlocking biomarkers as dietary assessment tools

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

[illegible]

[illegible]

FFQ[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Cell Metabolism [illegible]

[illegible]140[illegible]

[illegible]

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

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

[illegible]

[illegible]1[illegible]

[illegible]

[illegible]

[illegible]

[illegible]RNAseq[illegible]

[illegible]

[illegible] Cell Host &

Microbe[illegible]

[illegible]

[illegible]

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

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

NASH[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]*Bacteroides acidifaciens*[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Cell Report Medicine[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]73[illegible]57[illegible]

[illegible]5-fluorouracil[illegible]oxaliplatin[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]10[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]10[illegible]4[illegible]

[illegible] Gut Microbe[illegible]

[illegible]1[illegible]AD[illegible]

[illegible]

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

[illegible]

AD[illegible]

[illegible]

[illegible] Nature Metabolism[illegible]

2[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Science Advances[illegible]

3[illegible]

[illegible]

Ketogenic diet induces p53-dependent cellular senescence in multiple organs

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

[illegible]

[illegible]TNFa[illegible]IL-6[illegible]IL-1b[illegible]AMPK-p35[illegible]

[illegible]IL-1b[illegible]TNFa[illegible]

[illegible]

□□□□□□□□□□□□□□□□□□□□□□□□□□ BMC Medicine□

□□□□□□□□□□RCT□□□□□□□□□□□□□□□□□□□

□□□□□

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

□

□□□□□□□□□□□□□□□□68□□RCT□□

□□□□□□□□□□□□□□□□□□□□□□□□□a1c□□□□□□□□□□□□□LDL□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□4□□□□□□□□

□□

□

□□□□□□

□□□□□□□

2024□7□8□□□□□□□□□□□□□□□□□□□□□□

□□□□□4□

□□□□□□2024□6□□□□7□□□□□□□□□□□□□□4□□□□□□□

2019□□EAT-Lancet□□□□□Planetary Health Diet□PHD□□□□□□□□□□□□□□

□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□PHD□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□1□□□□□□□□□□□□□□□□□□□

□□□□□□□PHD□□□□□□□□□□□3□□□□□□□□□□□□□□□□□□□□□□1□□□□□□□□

□

□□□

2024□7□8□□□□□□4□

PHD□□□□□□□□□□□□□□□□□□□□□□□□ The American Journal of Clinical Nutrition□

□□1□□□PHD□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□

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

□

□□□□□□□UK□□□□□□□□□□□PHD□□□□□□□□□□□CVD□□□□□□□□ (IHD)□□□□□ (AF)□□□□ (HF)□□□□□□□□□□□□□□□□□□□□□□□

□□PHD□□□□□□□

[illegible]

[illegible]11000[illegible]9.9[illegible]PHD[illegible]

[illegible]PHD[illegible]PHD[illegible]

PHD[illegible] The American Journal of Clinical Nutrition[illegible]

PHD[illegible]2[illegible]PHD[illegible]

[illegible]

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

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

[illegible]

[illegible]3[illegible]the Nurses’ Health Study (1986–2019), the Nurses’ Health Study II (1989–2019), the Health Professionals Follow-up Study (1986–2018) [illegible]20[illegible]PHD[illegible]

[illegible]PHD[illegible]

[illegible]PHD[illegible]PHD[illegible]

PHD[illegible] Nature Aging[illegible]

PHD[illegible]3[illegible]PHD[illegible]

[illegible]

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

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

[illegible]

[illegible]50[illegible]1[illegible]PHD[illegible]

[illegible]PHD[illegible]

[illegible]

PHD[illegible]PHD[illegible]

[illegible]

[illegible] Gut[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]*Blautia wexlerae* [illegible]

[illegible]

[illegible]*Blautia wexlerae* [illegible]

[illegible]

[illegible]3[illegible]

[illegible]SDGs[illegible]

[illegible]PHD[illegible]…

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]5[illegible]4[illegible]

[illegible]2024[illegible]6[illegible]7[illegible]4[illegible]

[illegible]D[illegible]

[illegible]

2024□7□5□□□□□4□

□□□□□□□□□□□□□□□□□□□□□□□□□□□ Cell□

□□□□□□□□□□IL-17A□IL-23R□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□

Preclinical proof of principle for orally delivered Th17 antagonist miniproteins

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

□

Alfa Fold3□□

□□□□□□□□□□□□□□□□□□□□□RoseTTAFold All-Atom□□

□□□□□Th17□□□□□□□□□□□□□□□□□□□□□□□□□□□IL-17□IL-23R□□

□□

□□□□□□□□□□□□□□□□□□□□□□□□□Th17□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□ Cell Host & Microbe□

□□□□□□□□□□□□□□□□□□□□□□□□□1200□□□□□□□□□□□□□□□□□□□□

□□□□□

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

[illegible]

[illegible]*Cutibacterium acnes*[illegible]

[illegible]

[illegible]1234[illegible]

[illegible]

[illegible]

[illegible]L-[illegible]

[illegible]

[illegible] Nature Metabolism[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

□□□

□□□

□□□

□□□□D□□□□□□□□□□□□□□□□□□□□ Cell Reports□

□□□□□□□D□□□□□□□D□□

□□□□□

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

□

□□□□D□□

□□□□□□□D□□

□□□□□□□□□□□□□□□□□□□□□□D□□□□Vdr□□□□□□□□□□□□□□□□□□

□□□□Vdr□□□□□□□□□□□□□□□□□□□□D□□□Vdr□□□□□□□□□□□□β□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□

[illegible]

[illegible]

Alfa Fold 3[illegible]RoseTTAFold All-Atom[illegible]

[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]TCA[illegible]

[illegible]

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

[illegible] Nature Communications [illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]EEC[illegible]

[illegible]EEC[illegible]

[illegible]

[illegible]EEC[illegible]EEC[illegible]mGluR[illegible]

[illegible]mGluR[illegible]EEC[illegible]NPF[illegible]PYY[illegible]

[illegible]

[illegible] Nature Metabolism[illegible]

[illegible]EEC[illegible]EEC[illegible]

[illegible]

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

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

[illegible]

[illegible]EEC[illegible]…[illegible]

[illegible]EEC[illegible]EEC[illegible]

[illegible]EEC[illegible]EEC[illegible]

□□□□□□□□□□□□□□□□□□□□EEC□□EEC□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□

□□□□□□□□□□□□□□□□□□□□□□□□□□ Nature Microbiology□

□□□□□□□□□mGluR2□□

□□□□□

Influenza virus uses mGluR2 as an endocytic receptor to enter cells

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

□

□□

□□□□□□□□□□□□□mGluR2□□□□□□□□□□□□□□□potassium calcium-activated channel subfamily M alpha 1 (KCa1.1)□□

mGluR2□□

□□□□□□mGluR2□□

□□□□□□CD8+T□□□□□□□□□□□□□ Science Advances□

□□□

□□□□□□

^{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

[illegible]

[illegible]13C[illegible]

[illegible]13C[illegible]

[illegible]CD8T[illegible]ATP[illegible]

[illegible]

[illegible]

[illegible]/[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]1[illegible]4[illegible]

[illegible]2024[illegible]6[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]7[illegible]1[illegible]4[illegible]

[illegible] Nature Microbiology[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Nature Microbology[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]MCMM[illegible]ex vivo[illegible]

[illegible]

[illegible]/[illegible]

[illegible]

[illegible]

[illegible] Nature Medicine[illegible]

[illegible]II[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]10[illegible]8000[illegible]

[illegible]

[illegible]*Clostridium bolteae*[illegible]*Butyrivibrio crossotus*[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]AI Food Chemistry[illegible]

[illegible]AI[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]1H-NMR[illegible]

NMR[illegible]AI[illegible]95%[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

> — [illegible]@[illegible] *(@NzXyZQDOCMpLgz5)* *April 12, 2023*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]↓

> [illegible]
>
> — [illegible]@[illegible] *(@NzXyZQDOCMpLgz5)* *May 16, 2024*

[illegible]40%[illegible]40%[illegible]

[illegible]

[illegible]

[illegible]**80%**[illegible]

[illegible]**50%**[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]↓

> [illegible]
> [illegible]
>
> — [illegible]@[illegible] *(@NzXyZQDOCMpLgz5)* [May 16, 2024]

[illegible]**60%**[illegible]

[illegible]40%[illegible]

4

↓

> — @ *(@NzXyZQDOCMpLgz5)* *May 16, 2024*

4

□□□□□□↓

> □□□□□
> □□□□□□□□□□□□□□□□□□□□□□□
>
> — □□□@□□□□□□□□□ *(@NzXyZQDOCMpLgz5)* [*May 16, 2024*]()

□□□□□□□□□□□□□□□□□□□□□□□□□60%□□□□□□□□□□□□□□□□□□□□□□□□□□**80%**□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□

□

□□ □□

□□□

□□□□□□□2□□□ □□□□□□□□□□□□□

□□ □□

□□□□□□□□□□

□□□□□□4□□□

20□30□□□□□□□□□□□□□□□□□□□□□□□□□

> □□□□□□□□□□□□□□□□□□□□□□□
>
> — □□□@□□□□□□□□□ *(@NzXyZQDOCMpLgz5)* [*May 16, 2024*]()

□□□

□□□□□□□□□□□□□□□□□□□□□□□□

[illegible]80%[illegible]50%[illegible]

[illegible]50%[illegible]

[illegible]60%[illegible]

[illegible]80%[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]28[illegible]4[illegible]

[illegible]2024[illegible]6[illegible]4[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]28[illegible]4[illegible]

[illegible] Cell Host & Microbe[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]or[illegible]

[illegible]or[illegible]

[illegible]

[illegible] Science Translational Medicine[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]

[illegible]peptide YY (PYY)[illegible]=[illegible]

[illegible]L[illegible]PYY[illegible]

[illegible] Cell Metabolism[illegible]

[illegible]5:2[illegible]1 [illegible]2 [illegible]

[illegible]

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

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

[illegible]

[illegible]5:2[illegible]1[illegible]2[illegible]480kcal[illegible]

[illegible]

[illegible]2[illegible]+5:2[illegible]MRI[illegible]

[illegible]

[illegible]+5:2[illegible]

[illegible] JAMA Network Open[illegible]

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

[illegible]

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

[illegible]

[illegible]5:2[illegible]

[illegible]A1c[illegible]8[illegible]2[illegible]metformin[illegible]empagliflozin[illegible]

[illegible]A1c[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]26[illegible]GPCR[illegible]3[illegible]

[illegible]GPCR[illegible]GPCR[illegible]

[illegible]GPR41[illegible]GPR43[illegible]GPR40[illegible]GPR120[illegible]

[illegible]

[illegible]2023[illegible]2024[illegible]GPCR[illegible]

[illegible]

[illegible]

[illegible]**GPCR**[illegible]**3**[illegible]

[illegible]

[illegible]1[illegible]

[illegible]GPCR[illegible]3[illegible]

[illegible] Nature[illegible]

[illegible]

[illegible]

Bitter taste receptor activation by cholesterol and an intracellular tastant

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

□

□□□□□□□□□□□□□LDL□HDL□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□TAS2R14□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□…

□

TAS2R14□□□□□□□□□□□□□□□□□□100□□□□□□□□□□□□□□□□□□□□□□□□

□□□

□

□□□□□□□TAS2R14□□

□□□□□□□□□□□TAS2R14□□□ □□□□□□□□□□□□2□□□

□□□□□□□□□□□□□□□□□□GPCR□□□□□□□□□□□□ Science□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□GPR120□□□□□□□□□□□□□□□□□□□

□□□□□□

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

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

□

□□□□□□□□□□□□□□□□GPR120□□□□□□□□□□□□□□□□□□□□□□□□□□□

[illegible]GPR120[illegible]GPR120[illegible]

[illegible]

[illegible]GPR120[illegible]

[illegible]GPR120[illegible]π-π[illegible]

[illegible]Gq[illegible]Gi[illegible]Gs[illegible]

[illegible] Science[illegible]

[illegible]GPR158[illegible]

[illegible]

Orphan receptor GPR158 serves as a metabotropic glycine receptor: mGlyR

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

[illegible]

[illegible]GPR158[illegible]

[illegible]GPR158[illegible]

[illegible]GPCR[illegible]GPCR[illegible]

[illegible]

[illegible]

[illegible]3[illegible]GPCR[illegible]

[illegible]GPCR[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]24[illegible]4[illegible]

[illegible]2024[illegible]6[illegible]4[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]24[illegible]4[illegible]

[illegible] Nature Aging [illegible]

[illegible]PCAge[illegible]

[illegible]

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

[illegible]

[illegible]DNA[illegible]

[illegible]DNA[illegible]

[illegible]

[illegible]PCA[illegible]

[illegible]

[illegible]2[illegible]

[illegible] Nature Nanotechnology[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]black phosphorus nanosheets[illegible]

[illegible]

[illegible]

[illegible]D1[illegible]

[illegible]D1[illegible]

[illegible]

[illegible] Cell[illegible]

[illegible]DC[illegible]

[illegible]

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

[illegible]

[illegible]PD-1[illegible]CTLA-4[illegible]

[illegible]

[illegible]

[illegible]CD8+T[illegible]CD4+T[illegible]

[illegible] Nature Communications[illegible]

6-14[illegible]6[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]FORISCA[illegible]9500[illegible]

[illegible]

[illegible]

[illegible]A[illegible]

[illegible]

[illegible]A[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]21[illegible] [illegible]4[illegible]

[illegible]2024[illegible]6[illegible]4[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]21[illegible]4[illegible]

[illegible] Nature[illegible]

[illegible]

[illegible]

Sleep loss diminishes hippocampal reactivation and replay

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]CA1[illegible]12[illegible]

[illegible]

[illegible]

[illegible] Cell Metabolism[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]MDSC[illegible]CD8T[illegible]

[illegible]MDSC[illegible]⇒[illegible]⇒MDSC[illegible]⇒[illegible]

[illegible] Nature Metabolism[illegible]

[illegible]MASLD[illegible]MASLD[illegible]

[illegible]

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

□

□NAFLD□MASLD□

□

□MASLD□
□MASLD□MASLD□
□

□
□MASLD□

□

□
□

□MASLD□in vivo□

□ Food Chemistry□

□

□

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

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

□

□

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]DPC[illegible]

DPC[illegible]

[illegible]LC-DAD[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]19[illegible]

[illegible]3[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

[illegible]1[illegible]

[illegible]3[illegible]

[illegible] Cell Metabolism[illegible]

[illegible]*Klebsiella aerogenes*[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible] Cell Host & Microbe[illegible]

[illegible]*Mycobacterium neoaurum*[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]Cell[illegible]

[illegible]2[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

□□□

[□□□□□□]

[□□□□□□□]

2024□6□17□□□□□□□□□□□□□□□□□□□□□4□

□□□□□□2024□5□□□□6□□□□□□□□□□□□□□4□□□□□□□

□□□EPA□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□

2024□6□17□□□□□□4□

□□□□□□□□□□□□□□□□□□ European Heart Journal□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□

Xylitol is prothrombotic and associated with cardiovascular risk

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

□

□□

[illegible]Twitter[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Nature Microbiology[illegible]

[illegible]mGluR2[illegible]

[illegible]

Influenza virus uses mGluR2 as an endocytic receptor to enter cells

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

[illegible]

[illegible]

[illegible]

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

□□□□□□□□□□□□□□□mGluR2□□
□□□□□□□□□□□□□□□□□□□□□□□□

□

□□□mGluR2□KO□□
□□□□□□□□□□□□□□□□□□□□□□□□□□

□

□□□□□□□□□□□□□□□EPA□□□□□□□□□AJCN□

□□□□□□□□□□□EPA□□□□□□□□□□□□□□□□□□□□□□□FADS1□□□□□□□□□□□□□□□□□□□□
□□

□□□□□

***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

□

FADS1□□
□□□□□

□□□□□□□□□□□6□□□
□□□□□□□□□□□□□□□□□

□□□□□□□3□□□□EPA□□
□□□□□□□

□□□□□□□□□□□□□EPA□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□FADS1□□□□□□□
□□□□□□=□□

□□□□□□□EPA□□□
□□□□□□□□□□□□EPA□□□□□FADS1□□□□□□□□□□□□□□□□□□□□

[illegible]FADS1rs66698963[illegible]EPA[illegible]FADS1[illegible]EPA[illegible]

[illegible]FADS1[illegible]EPA[illegible]

[illegible]

[illegible]Ca[illegible] Food Chemistry[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]Ca[illegible]

[illegible]Ca[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Ca[illegible]

[illegible]Ca[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]EPA[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]14[illegible]4[illegible]

[illegible]2024[illegible]5[illegible]6[illegible]4[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]14[illegible]4[illegible]

[illegible] PNAS[illegible]

[illegible]

Accelerated biological aging six decades after prenatal famine exposure

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

1944-45 Dutch Famine

DoHaD

58 DNA

DoHaD

Cell Metabolism

sWAT

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

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

[illegible]

[illegible]dermal white adipose tissue[illegible]sWAT[illegible]

[illegible]sWAT[illegible]

[illegible]sWAT[illegible]

[illegible]

[illegible]sWAT[illegible]

[illegible]4[illegible]NRG4[illegible]

[illegible]NRG4[illegible]

[illegible]Food Chemistry[illegible]

[illegible]

[illegible]

Processes influencing the toxicity of microplastics ingested through the diet

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]N-[illegible]NBBS[illegible]A[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Cell[illegible]

[illegible]

[illegible]

Discovery of antimicrobial peptides in the global microbiome with machine learning

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

[illegible]

[illegible]

[illegible]

[illegible]ORF[illegible]AMPSphere[illegible]

[illegible]AMPSphere[illegible]90[illegible]

[illegible]100[illegible]63[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]12[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]2024[illegible]4[illegible]

[illegible]

[illegible]4[illegible]

[illegible]**Molecular Transducers of Physical Activity Consortium (MoTrPAC)**[illegible]2024[illegible]4[illegible]Nature[illegible]3[illegible]

[illegible]1[illegible]

[illegible]4[illegible]

[illegible]Nature[illegible]

[illegible]MoTrPAC[illegible]Nature[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]8[illegible]

[illegible]/[illegible]18[illegible]0[illegible]8[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

□□□□□□□□□□□□□□□□□□□□□ Cell Metabolism □

□□

□□□□□

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

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

□

45□□□□□□□□□1000□□□mortality, cancer, and mental, respiratory, cardiovascular, gastrointestinal, and metabolic health outcomes□□□□□□□□□□□□□□□

□□

□□□□□□□□□□□□□□□□□□□□□□□□ Nature Metabolism□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□or□□□□□□□□□□8□□□□□□□□□□□□□□□□□□□

□□□□□

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

□

□□□

□□□□□□□□□□□□□□□□□□□□□□ Nature

Communications[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]MoTrPAC[illegible]

2024[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]10[illegible]2[illegible]4[illegible]

[illegible]2024[illegible]5[illegible]6[illegible]4[illegible]

□□□

□□□

2024□6□10□□□□□4□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Nature□

□□

□□□□□

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

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

□

□□□RNA□□□□□□□□□□□□□epigenetic□□□□□□□□□□□□□□□□□□□□

□□□transferRNA□□□□□□□□□□□□□□□□□□RNA□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□ □□□□□□□□transferRNA□□□□□□□□BMI□□□ 2 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□ Nature

Nanotechnology[illegible]

[illegible]

[illegible]

Oral mitochondrial transplantation using nanomotors to treat ischaemic heart disease

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Cell Metabolism[illegible]

[illegible]6[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]6[illegible]

[illegible]WHO[illegible]

[illegible]360[illegible]ATP[illegible]

[illegible]

[illegible]

[illegible]

[illegible] JAMA Network Open[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]2.5[illegible]25[illegible]

[illegible]23%[illegible]

[illegible]14.8%[illegible]13.0%[illegible]BMI[illegible]10.2%[illegible]7.4%[illegible]

[illegible]

[illegible]

[illegible]2[illegible]

[illegible]2[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]7[illegible]4[illegible]

[illegible]2024[illegible]5[illegible]6[illegible]4[illegible]

[illegible]+[illegible]

[illegible]

2024[illegible]6[illegible]7[illegible]4[illegible]

[illegible]Nature[illegible]

[illegible]Lolamicin[illegible]

[illegible]

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

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

□

□□

□□□□□□□□□□□□□□□□□□Lolamicin□□□□□□□□

□□□

□□□□□□□□□□□□□□□□□□□□□□□Clostridium difficile□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□Cell Host & Microbe□

□□□□*Salmonella* Typhimurium□□□□□□□□□□□□□□□□□□□□

□□□□

***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

□

□□

□□□□□□□□□□*Salmonella* Typhimurium□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□ROS□□□□□ROS□□□□□□□□□□□□□□□□□□□□□□□□□□□

[illegible]

[illegible] Science Advances[illegible]

[illegible]

[illegible]

^{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

[illegible]

[illegible]13C[illegible]or[illegible]or[illegible]CD8 effector T[illegible]

[illegible]CD8 effector T[illegible]TCA[illegible]

[illegible]CD8T[illegible]

[illegible]

[illegible] AJCN[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]EC[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]6[illegible]5[illegible]4[illegible]

[illegible]2024[illegible]5[illegible]6[illegible]4[illegible]

[illegible]2[illegible]

[illegible]

2024[illegible]6[illegible]5[illegible]4[illegible]

[illegible]Cell

[illegible]2[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Nature Metabolism

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] American Journal of Clinical Nutrition

[illegible]

[illegible]

[illegible]

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

[illegible]

24[illegible]500mg/day[illegible]HbA1c[illegible]

[illegible]Bacteroides[illegible]

[illegible] American Journal of Clinical Nutrition

[illegible]or[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]4[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[[illegible]]()

[[illegible]]()

2024[illegible]6[illegible]3[illegible]3[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

[illegible]

[illegible]2[illegible]

[illegible]1[illegible]

[illegible]3[illegible]

[illegible]Nature Communications

[illegible]

[illegible]

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

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

[illegible]

[illegible]10[illegible]

[illegible]

[illegible]

[illegible]PFC[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Nature

[illegible]

[illegible]

Paternal microbiome perturbations impact offspring fitness

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

[illegible]

[illegible]

[illegible]RNA[illegible]

[illegible]⇒[illegible]⇒[illegible]

[illegible]Nature[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]RNA[illegible]epigenetic[illegible]

[illegible]transferRNA[illegible]RNA[illegible]

[illegible]

[illegible] [illegible]transferRNA[illegible]BMI[illegible] 2 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]5[illegible]31[illegible]4[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

[illegible]

[illegible]1[illegible]

[illegible]4[illegible]20240531

[illegible] Nature Metabolism[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]85[illegible]

[illegible]

[illegible]Nature Communications[illegible]

[illegible]

[illegible]

Senescent immune cells accumulation promotes brown adipose tissue dysfunction during aging

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

[illegible]

[illegible]S100A8[illegible]T[illegible]S100A8[illegible]

[illegible]S100A8[illegible]S100A8[illegible]

[illegible]

[illegible]Cell Reports Medicine[illegible]

[illegible]or[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]Cell[illegible]

[illegible]

[illegible]

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

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

[illegible]

[illegible]BCAA[illegible]BCAA[illegible]KO[illegible]BCAA[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2024[illegible]5[illegible]29[illegible]3[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]3[illegible]

[illegible]

[illegible]1[illegible]

[illegible]3[illegible]

[illegible] Nature Communications

[illegible]

[illegible]

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

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

[illegible]

[illegible]

[illegible]Nature Nanotechnology

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

[illegible]

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

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

[illegible]

[illegible]

[illegible]Nature Nanotechnology

[illegible]

[illegible]

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

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

[illegible]

[illegible]β-[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[[illegible]]()

[[illegible]]()

2024[illegible]5[illegible]27[illegible]GDF15[illegible]5[illegible]

Growth Differentiation Factor-15[illegible]GDF15[illegible]

[illegible]GDF15[illegible]

[illegible]GDF15[illegible]GDF15[illegible]

[illegible]

[illegible]GDF15[illegible]5[illegible]

[illegible]1[illegible]

GDF15[illegible]5[illegible]20240527

GDF15[illegible]Nature

[illegible]2023[illegible]Nature[illegible]

GDF15[illegible]NASH[illegible]

[illegible]

GDF15 promotes weight loss by enhancing energy expenditure in muscle

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

[illegible]

[illegible]

[illegible]GDF15[illegible]GFRAL[illegible]glial-cell-derived neurotrophic factor family receptor α-like[illegible]

[illegible]GDF15[illegible]

[illegible]GFRAL-β [illegible]

[illegible]

[illegible]

GDF15[illegible]Cell Metabolism

[illegible]GDF15[illegible]GDF15[illegible]

[illegible]

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

[illegible]

[illegible]GDF15[illegible]GDF15[illegible]

[illegible]GDF15[illegible]

GDF15[illegible]Cell Metabolism

GDF15[illegible]

[illegible]

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

[illegible]

[illegible]GDF15[illegible]

[illegible]GDF15 [illegible]GFRAL[illegible]glial cell line-derived neurotrophic factor (GDNF) family receptor alpha-like [illegible]β[illegible]

[illegible]GDF15[illegible]PD-1[illegible] Nature Communications

[illegible]GDF15[illegible]T[illegible]

[illegible]

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

[illegible]

GDF15[illegible]T[illegible]PD-1[illegible]

GDF15[illegible]GDF15[illegible]

GDF15[illegible]Nature

[illegible]2023[illegible]

[illegible]GDF15[illegible]

[illegible]

GDF15 linked to maternal risk of nausea and vomiting during pregnancy

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

[illegible]

[illegible]GDF15[illegible]

[illegible]GDF15[illegible]GDF15[illegible]GDF15[illegible]GDF15[illegible]

[illegible]GDF15[illegible]

[illegible]

[illegible]

[illegible]GDF15[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]