



Core Project OT2OD030544









Details









| Projects | Name | Award | Publications | Repositories | Analytics |
|-------------------|---|----------------|-----------------|----------------|--------------|
| 3OT2OD030544-01S4 | Biomedical Data Commons Workbench (BDCW) | \$3,229,346.00 | 73 publications | 0 repositories | 0 properties |
| 3OT2OD030544-01S2 | | | | | |
| 1OT2OD030544-01 | | | | | |
| 3OT2OD030544-01S3 | | | | | |
| 3OT2OD030544-01S1 | | | | | |



















Publications









Published works associated with this project.









| ID | Title | Authors | R C R | SJ R | Cit ati ons | Cit. /ye ar | Journal | Pub lish ed | Upd ated |
|---|--|--|---------------|----------------|-------------------|-------------------|------------|-------------------|------------------------|
| 39143213  DOI  | Mitochondrial complex I promotes kidney cancer metastasis. | Bezwada, Divya ...36 more... DeBerardinis, Ralph J | 8. 65 5 | 18. 28 8 | 54 | 54 | Nature | 2024 | Dec 3, 2025 (just now) |
| 40670786  DOI  | Imidazole propionate is a driver and therapeutic target in atherosclerosis. | Mastrangelo, Annalaura ...37 more... Sancho, David | 6. 02 | 18. 28 8 | 12 | 12 | Nature | 2025 | Dec 3, 2025 (just now) |
| 38844817  DOI  | Nucleotide metabolism in cancer cells fuels a UDP-driven macrophage cross-talk, promoting immunos... | Scolaro, Tommaso ...36 more... Mazzone, Massimiliano | 5. 80 3 | 0 | 35 | 35 | Nat Cancer | 2024 | Dec 3, 2025 (just now) |








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|---|--|---|---------------|----------------|----|------------|-------------|----------|---------------------------------|
| 39979287  DOI  | Ketogenic diet suppresses colorectal cancer through the gut microbiome long chain fatty acid stea... | Tsenkova, Mina ...22 more... Letellier, Elisabeth | 5. 48 8 | 0 | 11 | 11 | Nat Commun | 202 5 | Dec 3, 2025 (just now) |
| 34862502  DOI  | GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. | Petras, Daniel ...33 more... Wang, Mingxun | 5. 43 8 | 0 | 53 | 17. 667 | Nat Methods | 202 2 | Dec 3, 2025 (just now) |
| 40369079  DOI  | Taurine from tumour niche drives glycolysis to promote leukaemogenesis. | Sharma, Sonali ...21 more... Bajaj, Jeevisha | 4. 99 1 | 18. 28 8 | 10 | 10 | Nature | 202 5 | Dec 3, 2025 (just now) |
| 37798473  DOI  | Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate... | Miller, Anne ...7 more... Yellen, Gary | 4. 00 6 | 0 | 29 | 14. 5 | Nat Metab | 202 3 | Dec 3, 2025 (just now) |









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|---|--|--|-------|---|----|------|------------|------|------------------------|
| 38165806  DOI  | Metabolic reprogramming by histone deacetylase inhibition preferentially targets NRF2-activated t... | Karagiannis, Dimitris ...11 more... Lu, Chao | 3.96 | 0 | 17 | 17 | Cell Rep | 2024 | Dec 3, 2025 (just now) |
| 38636516  DOI  | Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids. | Dingare, Chaitanya ...3 more... Steventon, Benjamin | 3.577 | 0 | 20 | 20 | Dev Cell | 2024 | Dec 3, 2025 (just now) |
| 39420002  DOI  | Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro... | Xia, Chaoyi ...13 more... Wang, Yang | 3.497 | 0 | 15 | 15 | Nat Commun | 2024 | Dec 3, 2025 (just now) |
| 37349305  DOI  | Defining diurnal fluctuations in mouse choroid plexus and CSF at high molecular, spatial, and tem... | Fame, Ryann M ...21 more... Lehtinen, Maria K | 3.399 | 0 | 25 | 12.5 | Nat Commun | 2023 | Dec 3, 2025 (just now) |







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|---|--|--|---------------|---|----|----|---------------------|------|------------------------|
| 39300135  DOI  | Gut symbiont-derived sphingosine modulates vector competence in Aedes mosquitoes. | Sun, Xiaomei ...12 more... Zou, Zhen | 3. 19 8 | 0 | 9 | 9 | Nat Commun | 2024 | Dec 3, 2025 (just now) |
| 39754192  DOI  | Integrative multiomics reveals common endotypes across PSEN1, PSEN2, and APP mutations in familia... | Valdes, Phoebe ...9 more... Subramaniam, Shankar | 3. 00 8 | 0 | 6 | 6 | Alzheimers Res Ther | 2025 | Dec 3, 2025 (just now) |
| 38714664  DOI  | FGFR inhibition blocks NF-κB-dependent glucose metabolism and confers metabolic vulnerabilities i... | Zhen, Yuanli ...11 more... Bardeesy, Nabeel | 2. 94 9 | 0 | 15 | 15 | Nat Commun | 2024 | Dec 3, 2025 (just now) |
| 39305905  DOI  | DRMY1 promotes robust morphogenesis in Arabidopsis by sustaining the translation of cytokinin-sig... | Kong, Shuyao ...10 more... Roeder, Adrienne H K | 2. 75 8 | 0 | 12 | 12 | Dev Cell | 2024 | Dec 3, 2025 (just now) |









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|---|--|--|---------------|---|----|----|----------------------|------|------------------------|
| 38286827  DOI  | Loss of Pip4k2c confers liver-metastatic organotropism through insulin-dependent PI3K-AKT pathway... | Rogava, Meri ...43 more... Izar, Benjamin | 2. 73 5 | 0 | 15 | 15 | Nat Cancer | 2024 | Dec 3, 2025 (just now) |
| 38318337  DOI  | Exploring the interplay between running exercises, microbial diversity, and tryptophan metabolism... | Vazquez-Medina, Alejandra ...6 more... Chorna, Nataliya | 2. 50 2 | 0 | 8 | 8 | Front Microbiol | 2024 | Dec 3, 2025 (just now) |
| 37441265  DOI  | Contribution of Circulating Host and Microbial Tryptophan Metabolites Toward Ah Receptor Activation. | Morgan, Ethan W ...12 more... Perdew, Gary H | 2. 44 8 | 0 | 18 | 9 | Int J Tryptophan Res | 2023 | Dec 3, 2025 (just now) |
| 39206133  DOI  | Phosphate availability conditions caspofungin tolerance, capsule attachment and titan cell format... | Qu, Xianya ...7 more... Kronstad, James W | 2. 41 8 | 0 | 7 | 7 | Front Fungal Biol | 2024 | Dec 3, 2025 (just now) |







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|---|--|--|---------------|---|----|----------|------------------------------------|------|------------------------|
| 38172157  DOI  | Deficiency of the lipid flippase ATP10A causes diet-induced dyslipidemia in female mice. | Norris, Adriana C ...7 more... Graham, Todd R | 2. 36 3 | 0 | 9 | 9 | Sci Rep | 2024 | Dec 3, 2025 (just now) |
| 37452018  DOI  | Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis. | Takata, Nozomu ...16 more... Oliver, Guillermo | 2. 25 | 0 | 21 | 10. 5 | Nat Commun | 2023 | Dec 3, 2025 (just now) |
| 38226418  DOI  | Fatty acid metabolism promotes TRPV4 activity in lung microvascular endothelial cells in pulmonar... | Philip, Nicolas ...20 more... Suresh, Karthik | 2. 19 6 | 0 | 8 | 8 | Am J Physiol Lung Cell Mol Physiol | 2024 | Dec 3, 2025 (just now) |
| 39535921  DOI  | Cancer-associated fibroblasts maintain critical pancreatic cancer cell lipid homeostasis in the t... | Han, Xu ...13 more... Simon, M Celeste | 2. 17 6 | 0 | 12 | 12 | Cell Rep | 2024 | Dec 3, 2025 (just now) |









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|--|--|--|---------------|---|----|----------|-----------------------------|------|------------------------|
| 34721400  DOI  | Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechani... | Mukund, Kavitha ...6 more... Subramaniam, Shankar | 1. 86 5 | 0 | 35 | 8.7 5 | Front Immunol | 2021 | Dec 3, 2025 (just now) |
| 38161977  DOI  | Gut microbiota and metabolites in estrus cycle and their changes in a menopausal transition rat m... | Dai, Ruoxi ...5 more... Sun, Yan | 1. 36 3 | 0 | 7 | 3.5 | Front Endocrinol (Lausanne) | 2023 | Dec 3, 2025 (just now) |
| 37815914  DOI  | MYC is a regulator of androgen receptor inhibition-induced metabolic requirements in prostate can... | Crowell, Preston D ...23 more... Goldstein, Andrew S | 1. 21 2 | 0 | 13 | 6.5 | Cell Rep | 2023 | Dec 3, 2025 (just now) |
| 38813868  DOI  | Fetal growth delay caused by loss of non-canonical imprinting is resolved late in pregnancy and c... | Oberin, Ruby ...14 more... Western, Patrick S | 1. 13 2 | 0 | 6 | 6 | Elife | 2024 | Dec 3, 2025 (just now) |







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|---|--|--|-------|---|---|---|-------------------|------|------------------------|
| 38018851  DOI  | Lipidomic Analysis Reveals Differences in the Extent of Remyelination in the Brain and Spinal Cord. | De Silva Mohotti, Nishama ...5 more... Hartley, Meredith D | 1.063 | 0 | 3 | 3 | J Proteome Res | 2024 | Dec 3, 2025 (just now) |
| 38001239  DOI  | IL-1 β -mediated adaptive reprogramming of endogenous human cardiac fibroblasts to cells with immun... | Siamwala, Jamila H ...11 more... Gilbert, Richard J | 1.013 | 0 | 8 | 4 | Commun Biol | 2023 | Dec 3, 2025 (just now) |
| 38926365  DOI  | METTL3-mediated chromatin contacts promote stress granule phase separation through metabolic repr... | Wang, Chen ...17 more... Zhang, Rugang | 0.96 | 0 | 6 | 6 | Nat Commun | 2024 | Dec 3, 2025 (just now) |
| 38937647  DOI  | Metabolic abnormalities in the bone marrow cells of young offspring born to mothers with obesity. | Phillips, Elysse A ...4 more... Maloyan, Alina | 0.872 | 0 | 3 | 3 | Int J Obes (Lond) | 2024 | Dec 3, 2025 (just now) |









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|---|--|--|---------------|---|---|-----|-------------|------|------------------------|
| 38761133  DOI  | Differential impact of sex on regulation of skeletal muscle mitochondrial function and protein ho... | Welch, Nicole ...14 more... Dasarathy, , Srinivasan | 0. 75 4 | 0 | 3 | 3 | J Physiol | 2024 | Dec 3, 2025 (just now) |
| 37515770  DOI  | The stability of the myelinating oligodendrocyte transcriptome is regulated by the nuclear lamina. | Pruvost, Mathilde ...16 more... Casaccia, Patrizia | 0. 68 4 | 0 | 7 | 3.5 | Cell Rep | 2023 | Dec 3, 2025 (just now) |
| 39307306  DOI  | Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and α -ketoglutarate... | Giovanne rcole, Fabio ...4 more... De Biase, Daniela | 0. 62 5 | 0 | 2 | 2 | J Biol Chem | 2024 | Dec 3, 2025 (just now) |









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|---|--|--|-------|---|---|---|----------------------|------|------------------------|
| 37849634  DOI  | Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzhei... | Patel, Ashay O ...2 more... Subramaniam, Shankar | 0.592 | 0 | 4 | 2 | J Alzheimers Dis Rep | 2023 | Dec 3, 2025 (just now) |
| 38651675  DOI  | A nested case-control study of untargeted plasma metabolomics and lung cancer among never-smoking... | Rahman, Mohammad L ...12 more... Lan, Qing | 0.517 | 0 | 3 | 3 | Int J Cancer | 2024 | Dec 3, 2025 (just now) |
| 38975764  DOI  | Taurine modulates host cell responses to Helicobacter pylori VacA toxin. | Westland, Mandy D ...5 more... Cover, Timothy L | 0.512 | 0 | 2 | 2 | Infect Immun | 2024 | Dec 3, 2025 (just now) |
| 39702518  DOI  | Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula... | Hunter, Benjamin ...11 more... Lal, Sean | 0.462 | 0 | 2 | 2 | Commun Biol | 2024 | Dec 3, 2025 (just now) |

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|---|--|---|-------|-------|---|---|-------------|------|------------------------|
| 38544285  DOI  | Repeated exposure to eucalyptus wood smoke alters pulmonary gene and metabolic profiles in male L... | Cochran, Samuel J ...11 more... Gowdy, Kymberly M | 0.441 | 0 | 1 | 1 | Toxicol Sci | 2024 | Dec 3, 2025 (just now) |
| 39328933  DOI  | Deletion of <i>Kcnj16</i> altered transcriptomic and metabolomic profiles of Dahl salt-sensitive ... | Xu, Biyang ...4 more... Staruschenko, Alexander | 0.42 | 1.363 | 1 | 1 | iScience | 2024 | Dec 3, 2025 (just now) |
| 35448980  DOI  | Modular and mechanistic changes across stages of colorectal cancer. | Rahiminejad, Sara ...2 more... Subramaniam, Shankar | 0.411 | 0 | 6 | 2 | BMC Cancer | 2022 | Dec 3, 2025 (just now) |
| 38826219  DOI  | Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can... | Rahiminejad, Sara ...2 more... Subrama | 0.329 | 0 | 1 | 1 | Res Sq | 2024 | Dec 3, 2025 (just now) |

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|---|--|--|---------------|---|---|-----------|--------------|----------|------------------------------------|--|
| | | niam, Shankar | | | | | | | | |
| 37983749  DOI  | MetGENE: gene-centric metabolomics information retrieval tool. | Srinivasan , Sumana ...3 more... Subrama niam, Shankar | 0. 15 1 | 0 | 2 | 0.6 67 | Gigascience | 202 2 | Dec 3, 2025 (just now) | |
| 37398141  DOI  | Deficiency of the lipid flippase ATP10A causes diet-induced dyslipidemia in female mice. | Norris, Adriana C ...7 more... Graham, Todd R | 0. 13 4 | 0 | 1 | 0.5 | bioRxiv | 202 3 | Dec 3, 2025 (just now) | |
| 39257804  DOI  | Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp... | Tamir, Tigist Y ...15 more... White, Forest M | 0 | 0 | 0 | 0 | bioRxiv | 202 4 | Dec 3, 2025 (just now) | |
| 39448026  DOI  | Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes. | Carvalho, Diego ...9 more... Arredond | 0 | 0 | 0 | 0 | J Proteomics | 202 5 | Dec 3, 2025 (just now) | |

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|---|--|---|---|-----------|---|---|-------------|----------|------------------------------------|--|
| | | o, Florenxia | | | | | | | | |
| 40863167  DOI  | Metabolomics Network Analysis of Various Genotypes Associated with Schizophrenia Gene Variant. | Rajula, Hema Sekhar Reddy ...8 more... Fanos, Vassilios | 0 | 0.9 96 | 0 | 0 | Metabolites | 202 5 | Dec 3, 2025 (just now) | |
| 41068133  DOI  | Multionics analysis of the Silkworm cocoon shell. | Fragkou, Panagiota ...11 more... Dedos, Skarlatos G | 0 | 0 | 0 | 0 | Sci Data | 202 5 | Dec 3, 2025 (just now) | |
| 41238532  DOI  | The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient c... | Grubb, Treg ...25 more... Chakrabo rty, Abhishek A | 0 | 0 | 3 | 3 | Nat Commun | 202 5 | Dec 3, 2025 (just now) | |

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|---|--|--|---|---|---|---|------------------------------|------|------------------------|
| 40308032  DOI  | Integrated Multiomics Analyses of the Molecular Landscape of Sarcopenia in Alcohol-Related Liver ... | Welch, Nicole ...13 more... Dasarathy, Srinivasan | 0 | 0 | 0 | 0 | J Cachexia Sarcopenia Muscle | 2025 | Dec 3, 2025 (just now) |
| 38187579  DOI  | Matrix Linear Models for connecting metabolite composition to individual characteristics. | Farage, Gregory ...5 more... Sen, Śaunak | 0 | 0 | 0 | 0 | bioRxiv | 2023 | Dec 3, 2025 (just now) |
| 37546759  DOI  | Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate... | Miller, Anne ...7 more... Yellen, Gary | 0 | 0 | 0 | 0 | Res Sq | 2023 | Dec 3, 2025 (just now) |
| 40502162  DOI  | OGDHL regulates tumor growth, neuroendocrine marker expression, and nucleotide abundance in prost... | Bernard, Matthew J ...23 more... Goldstein, Andrew S | 0 | 0 | 0 | 0 | bioRxiv | 2025 | Dec 3, 2025 (just now) |

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|---|--|--|---|-----------|---|---|---|----------|------------------------------------|
| 40828023  DOI  | Synergistic action of specialized metabolites from divergent biosynthesis in the human oral micro... | Loop Yao, McKenna ...7 more... Zhang, Wenjun | 0 | 0 | 2 | 2 | Proc Natl Acad Sci U S A | 202 5 | Dec 3, 2025 (just now) |
| 38313293  DOI  | Metabolic abnormalities in the bone marrow cells of young offspring born to obese mothers. | Alina, Maloyan ...4 more... Kumar, Sushil | 0 | 0 | 0 | 0 | Res Sq | 202 4 | Dec 3, 2025 (just now) |
| 39464135  DOI  | Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes. | Atser, Michael G ...12 more... Johnson, James D | 0 | 0 | 0 | 0 | bioRxiv | 202 5 | Dec 3, 2025 (just now) |
| 39707873  DOI  | Salivary Metabolomic Signatures in Pediatric Eosinophilic Esophagitis. | Hiremath, Girish ...6 more... Locke, Andrea | 0 | 3.6 22 | 2 | 2 | Allergy: European Journal of Allergy and Clinical Immunology | 202 5 | Dec 3, 2025 (just now) |

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|--|--|--|---|---|---|---|--------------|------|------------------------|
| 40052831 DOI ↗ | Human adenovirus serotype 5 infection dysregulates cysteine, purine, and unsaturated fatty acid m... | Sanchez, Bailey-J C ...1 more... Grasis, Juris A | 0 | 0 | 1 | 1 | FASEB J | 2025 | Dec 3, 2025 (just now) |
| 40074083 DOI ↗ | Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes. | Atser, Michael G ...12 more... Johnson, James D | 0 | 0 | 1 | 1 | J Biol Chem | 2025 | Dec 3, 2025 (just now) |
| 40312501 DOI ↗ | Synaptic vesicle-omics in mice captures signatures of aging and synucleinopathy. | Gao, Virginia ...14 more... Burré, Jacqueline | 0 | 0 | 0 | 0 | Nat Commun | 2025 | Dec 3, 2025 (just now) |
| 40759793 DOI ↗ | Left ventricular myocardial molecular profile of human diabetic ischaemic cardiomyopathy. | Hunter, Benjamin ...16 more... Lal, Sean | 0 | 0 | 1 | 1 | EMBO Mol Med | 2025 | Dec 3, 2025 (just now) |

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|--|---|---------------------------------|----------|-------|--------|-----|-------------|----------|------------------------|
| 40600951 DOI | Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting. | Dasgupta, Aneesha ...11 more... | 0 | 0 | 0 | 0 | J Exp Med | 2025 | Dec 3, 2025 (just now) |
| <div><div></></div><div>Repositories</div></div> | | | | | | | | | |
| 39395792 DOI | Modeling enzyme composition in eicosanoid metabolism in macrophage cells using a cybernetic | Khanum, Sana ...5 more... | 0 | 0 | 0 | 0 | J Lipid Res | 2024 | Dec 3, 2025 .. |
| Name | Description | Stars | Watchers | Forks | Issues | PRs | Commits | Contrib. | |
| mi No data | | | | | | | | | |

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|--------------|---|
| Repository | For storing, tracking changes to, and collaborating on a piece of software. |
| PR | "Pull request", a draft change (new feature, bug fix, etc.) to a repo. |
| Closed/Open | Resolved/unresolved. |
| Avg Issue/PR | Average time issues/pull requests stay open for before being closed. |

Only the main/default branch is considered for metrics like # of commits.

of dependencies is totaled from all manifests in repo, direct and transitive, e.g. package.json + package-lock.json.

Analytics

Traffic metrics of websites associated with this project.

Notes





- Active Users [Distinct users who visited the website](#).
- New Users [Users who visited the website for the first time](#).
- Engaged Sessions [Visits that had significant interaction](#).

"Top" metrics are measured by number of engaged sessions.

Built on Dec 3, 2025

Developed with support from NIH Award [U54 OD036472](#)

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|--|--|--|---|---|---|---|---------|------|------------------------|
| 40791373 DOI | ndufs2 ^{<sup>-/-</sup>} zebrafish have impaired survival, neuromuscular activity, morphology, and on... | Mitchell, Dana V ...10 more... Falk, Marni J | 0 | 0 | 1 | 1 | bioRxiv | 2025 | Dec 3, 2025 (just now) |
|--|--|--|---|---|---|---|---------|------|------------------------|

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|---|--|--|---|---|---|---|-------------------------------|------|------------------------|
| 40932625  DOI  | Autoimmune disease risk gene ANKRD55 promotes TH17 effector function through metabolic modulation. | Xu, Jinjin ...14 more... Xavier, Ramnik J | 0 | 0 | 0 | 0 | J Exp Med | 2025 | Dec 3, 2025 (just now) |
| 41251214  DOI  | Surface acoustic wave hemolysis assay for evaluating stored red blood cells. | Song, Meiou ...6 more... Ding, Xiaoyun | 0 | 0 | 0 | 0 | Lab Chip | 2025 | Dec 3, 2025 (just now) |
| 39985215  DOI  | Stress exposure in the mdx mouse model of Duchenne muscular dystrophy provokes a widespread metab... | Johnson, Erynn E Ervasti, James M | 0 | 0 | 0 | 0 | FEBS J | 2025 | Dec 3, 2025 (just now) |
| 40166866  DOI  | Severe Cognitive Decline in Long-term Care Is Related to Gut Microbiome Production of Metabolites... | Shoubridge, Andrew P ...17 more... Rogers, Geraint B | 0 | 0 | 3 | 3 | J Gerontol A Biol Sci Med Sci | 2025 | Dec 3, 2025 (just now) |

[41266305](#) [DOI](#)

A taxon-specific measurement of disruption in a multi-modal study of microbiomes and metabolomes ...

Fouladi, F
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Peddada,
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Nat Commun

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Dec 3, 2025 (just now)

Notes

RCR [Relative Citation Ratio](#)

SJR [Scimago Journal Rank](#)

