



(Core Project OT2OD030544)

ⓘ Details

| Projects | Name | Award | Publications | Repositories | Analytics |
|-------------------|-------------------------|----------------|-----------------|----------------|--------------|
| 3OT2OD030544-01S4 | Biomedical Data Commons | \$3,229,346.00 | 69 publications | 0 repositories | 0 properties |
| 3OT2OD030544-01S2 | Workbench (BDCW) | | | | |
| 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 lished | Upd ated |
|--------------------------|--|--|-------------|----------|--------------------|-------------------|-------------|---------------|-------------------------|
| 39143213 | Mitochondrial complex I promotes kidney cancer metastasis. | Bezwada, Divya ...36 more... DeBerardini, Ralph J | 8. 54 3 | 18. 28 8 | 50 | 50 | Nature | 2024 | Nov 23, 2025 (just now) |
| 34862502 | GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. | Petras, Daniel ...33 more... Wang, Mingxun | 5. 58 6 | 0 | 53 | 17. 667 | Nat Methods | 2022 | Nov 23, 2025 (just now) |
| 38844817 | Nucleotide metabolism in cancer cells fuels a UDP-driven macrophage cross-talk, promoting immunos... | Scolaro, Tommaso ...36 more... Mazzone, Massimiliano | 5. 49 9 | 0 | 31 | 31 | Nat Cancer | 2024 | Nov 23, 2025 (just now) |
| 39979287 | Ketogenic diet suppresses colorectal cancer through the gut microbiome long chain fatty acid stea... | Tsenkova, Mina ...22 more... Letellier, Elisabeth | 5. 00 1 | 0 | 10 | 10 | Nat Commun | 2025 | Nov 23, 2025 (just now) |

| | | | | | | | | |
|--------------------------|--|---|---------------|----------------|----------|------------|-----------|-------------------------|
| 40369079 | Taurine from tumour niche drives glycolysis to promote leukaemogenesis. | Sharma, Sonali ...21 more... Bajaj, Jeevisha | 5. 00 1 | 18. 28 8 | 10 10 | Nature | 2025 5 | Nov 23, 2025 (just now) |
| 38165806 | Metabolic reprogramming by histone deacetylase inhibition preferentially targets NRF2-activated t... | Karagiannis, Dimitris ...11 more... Lu, Chao | 4. 25 3 | 0 | 17 17 | Cell Rep | 2024 | Nov 23, 2025 (just now) |
| 40670786 | Imidazole propionate is a driver and therapeutic target in atherosclerosis. | Mastrangelo, Annalaura ...37 more... Sancho, David | 4. 00 5 | 18. 28 8 | 8 8 | Nature | 2025 | Nov 23, 2025 (just now) |
| 39420002 | Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro... | Xia, Chaoyi ...13 more... Wang, Yang | 3. 75 6 | 0 | 15 15 | Nat Commun | 2024 | Nov 23, 2025 (just now) |

| | | | | | | | | | |
|--------------------------|--|--|---------------|---|----|----------|------------|------|-------------------------|
| 37798473 | Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate... | Miller, Anne ...7 more... Yellen, Gary | 3. 71 9 | 0 | 26 | 13 | Nat Metab | 2023 | Nov 23, 2025 (just now) |
| 38636516 | Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids. | Dingare, Chaitanya ...3 more... Steventon , | 3. 54 3 | 0 | 19 | 19 | Dev Cell | 2024 | Nov 23, 2025 (just now) |
| 37349305 | Defining diurnal fluctuations in mouse choroid plexus and CSF at high molecular, spatial, and tem... | Fame, Ryann M ...21 more... Lehtinen, Maria K | 3. 54 | 0 | 25 | 12. 5 | Nat Commun | 2023 | Nov 23, 2025 (just now) |
| 39300135 | Gut symbiont-derived sphingosine modulates vector competence in Aedes mosquitoes. | Sun, Xiaomei ...12 more... Zou, Zhen | 2. 99 3 | 0 | 8 | 8 | Nat Commun | 2024 | Nov 23, 2025 (just now) |

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|--------------------------|--|---|---------------|---|----|----|------------|------|-------------------------|
| 38286827 | Loss of Pip4k2c confers liver-metastatic organotropism through insulin-dependent PI3K-AKT pathway... | Rogava, Meri ...43 more... Izar, Benjamin | 2. 79 | 0 | 14 | 14 | Nat Cancer | 2024 | Nov 23, 2025 (just now) |
| 38714664 | FGFR inhibition blocks NF-κB-dependent glucose metabolism and confers metabolic vulnerabilities i... | Zhen, Yuanli ...11 more... Bardeesy, Nabeel | 2. 75 8 | 0 | 13 | 13 | Nat Commun | 2024 | Nov 23, 2025 (just now) |
| 39305905 | DRMY1 promotes robust morphogenesis in Arabidopsis by sustaining the translation of cytokinin-sig... | Kong, Shuyao ...10 more... Roeder, Adrienne H K | 2. 72 9 | 0 | 11 | 11 | Dev Cell | 2024 | Nov 23, 2025 (just now) |
| 38172157 | Deficiency of the lipid flippase ATP10A causes diet-induced dyslipidemia in female mice. | Norris, Adriana C ...7 more... Graham, Todd R | 2. 53 7 | 0 | 9 | 9 | Sci Rep | 2024 | Nov 23, 2025 (just now) |

[39535921](#) ↗
[DOI](#) ↗

Cancer-associated fibroblasts maintain critical pancreatic cancer cell lipid homeostasis in the t... Han, Xu ...13 2. more... 33 0 12 12 Cell Rep Simon, M 5 Celeste

Nov 23, 2025 (just now)
2024

[37441265](#) ↗
[DOI](#) ↗

Contribution of Circulating Host and Microbial Tryptophan Metabolites Toward Ah Receptor Activation. Morgan, Ethan W ...12 2. more... 26 0 16 8 Int J Tryptophan Res Perdew, Gary H 7

Nov 23, 2025 (just now)
2023

[39206133](#) ↗
[DOI](#) ↗

Phosphate availability conditions caspofungin tolerance, capsule attachment and titan cell format... Qu, Xianya ...7 2. more... 20 0 6 6 Front Fungal Biol Kronstad, James W 4

Nov 23, 2025 (just now)
2024

[37452018](#) ↗
[DOI](#) ↗

Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis. Takata, Nozomu ...16 2. more... 19 0 20 10 Nat Commun Oliver, Guillermo 2

Nov 23, 2025 (just now)
2023

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|--------------------------|--|---|----------------|------------------------------------|------|-------------------------|
| 34721400 | Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechanism... | Mukund, Kavitha ...6 more... Subramanian, Shankar | 1. 83 0 34 8.5 | Front Immunol | 2021 | Nov 23, 2025 (just now) |
| 38226418 | Fatty acid metabolism promotes TRPV4 activity in lung microvascular endothelial cells in pulmonar... | Philip, Nicolas ...20 more... Suresh, Karthik | 1. 80 0 6 6 | Am J Physiol Lung Cell Mol Physiol | 2024 | Nov 23, 2025 (just now) |
| 38318337 | Exploring the interplay between running exercises, microbial diversity, and tryptophan metabolism... | Vazquez-Medina, Alejandra ...6 more... Chorna, Nataliya | 1. 79 0 5 5 | Front Microbiol | 2024 | Nov 23, 2025 (just now) |
| 37815914 | MYC is a regulator of androgen receptor inhibition-induced metabolic requirements in prostate can... | Crowell, Preston D ...23 more... Goldstein, Andrew S | 1. 26 0 13 6.5 | Cell Rep | 2023 | Nov 23, 2025 (just now) |

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|--------------------------|--|--|---------------|---|---|---|-----------------------------|------|-------------------------|
| 38161977 | Gut microbiota and metabolites in estrus cycle and their changes in a menopausal transition rat m... | Dai, Ruoxi ...5 more... Sun, Yan | 1. 25 4 | 0 | 6 | 3 | Front Endocrinol (Lausanne) | 2023 | Nov 23, 2025 (just now) |
| 38813868 | 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. 21 5 | 0 | 6 | 6 | Elife | 2024 | Nov 23, 2025 (just now) |
| 38018851 | 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. 14 | 0 | 3 | 3 | J Proteome Res | 2024 | Nov 23, 2025 (just now) |
| 38001239 | IL-1 β -mediated adaptive reprogramming of endogenous human cardiac fibroblasts to cells with immun... | Siamwala, Jamila H ...11 more... Gilbert, Richard J | 1. 05 7 | 0 | 8 | 4 | Commun Biol | 2023 | Nov 23, 2025 (just now) |

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|--------------------------|--|--|---------------|---|---|-----|-------------------|------|-------------------------|
| 38937647 | Metabolic abnormalities in the bone marrow cells of young offspring born to mothers with obesity. | Phillips, Elysse A ...4 more... Maloyan, Alina | 0. 93 6 | 0 | 3 | 3 | Int J Obes (Lond) | 2024 | Nov 23, 2025 (just now) |
| 38926365 | METTL3-mediated chromatin contacts promote stress granule phase separation through metabolic repr... | Wang, Chen ...17 more... Zhang, Rugang | 0. 87 7 | 0 | 5 | 5 | Nat Commun | 2024 | Nov 23, 2025 (just now) |
| 38761133 | Differential impact of sex on regulation of skeletal muscle mitochondrial function and protein ho... | Welch, Nicole ...14 more... Dasarathy , Srinivasan | 0. 80 9 | 0 | 3 | 3 | J Physiol | 2024 | Nov 23, 2025 (just now) |
| 37515770 | The stability of the myelinating oligodendrocyte transcriptome is regulated by the nuclear lamina. | Pruvost, Mathilde ...16 more... Casaccia, Patrizia | 0. 71 3 | 0 | 7 | 3.5 | Cell Rep | 2023 | Nov 23, 2025 (just now) |

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|--------------------------|---------------------|--|--|---------------|---|---|---|----------------------|------|-------------------------|
| 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. 67 1 | 0 | 2 | 2 | J Biol Chem | 2024 | Nov 23, 2025 (just now) |
| 37849634 | DOI | Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzheimer's Disease | Patel, Ashay O ...2 more... Subramanian, Shankar | 0. 61 6 | 0 | 4 | 2 | J Alzheimers Dis Rep | 2023 | Nov 23, 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. 55 4 | 0 | 3 | 3 | Int J Cancer | 2024 | Nov 23, 2025 (just now) |
| 38975764 | DOI | Taurine modulates host cell responses to Helicobacter pylori VacA toxin. | Westland, Mandy D ...5 more... Cover, Timothy L | 0. 54 9 | 0 | 2 | 2 | Infect Immun | 2024 | Nov 23, 2025 (just now) |

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|--------------------------|---------------------|--|---|---------|--------|-------------|----------|-------------------------|-------------------------|
| 39702518 | DOI | Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula... | Hunter, Benjamin ...11 more... Lal, Sean | 0. 49 6 | 0 2 2 | Commun Biol | 2024 | Nov 23, 2025 (just now) | |
| 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. 47 3 | 0 1 1 | Toxicol Sci | 2024 | Nov 23, 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. 45 1 | 1.3 63 | 1 1 | iScience | 2024 | Nov 23, 2025 (just now) |
| 35448980 | DOI | Modular and mechanistic changes across stages of colorectal cancer. | Rahiminejad, Sara ...2 more... Subramaniam, Shankar | 0. 42 2 | 0 6 2 | BMC Cancer | 2022 | Nov 23, 2025 (just now) | |

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|--------------------------|--|---|----------|---|-----------|----------------|----------|-------------------------------------|
| | Srinivasan , Suman ...3 more... Subrama niam, Shankar | 0. 15 5 | 0 | 2 | 0.6 67 | Gigascience | 202 2 | Nov 23, 2025 (just now) |
| 37983749 | MetGENE: gene-centric metabolomics information retrieval tool. | Norris, Adriana C ...7 more... Graham, Todd R | 0. 14 | 0 | 1 | 0.5 bioRxiv | 202 3 | Nov 23, 2025 (just now) |
| 37398141 | Deficiency of the lipid flippase ATP10A causes diet-induced dyslipidemia in female mice. | Atser, Michael G ...12 more... Johnson, James D | 0 | 0 | 0 | 0 bioRxiv | 202 5 | Nov 23, 2025 (just now) |
| 39464135 | Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes. | Sanchez, Bailey-J C ...1 more... Grasis, Juris A | 0 | 0 | 1 | 1 FASEB J | 202 5 | Nov 23, 2025 (just now) |
| 40052831 | Human adenovirus serotype 5 infection dysregulates cysteine, purine, and unsaturated fatty acid m... | | | | | | | |

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|--------------------------|--|---|------------------|--------------------------|------|-------------------------|
| 40751246 | Metabolomic profiling reveals interindividual metabolic variability and its association with card... | Zhou, Meng ...8 more... Ma, Shizhan | 0 0 0 0 | Cardiovasc Diabetol | 2025 | Nov 23, 2025 (just now) |
| 40502162 | 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 | Nov 23, 2025 (just now) |
| 40828023 | 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 | 2025 | Nov 23, 2025 (just now) |
| 38187579 | Matrix Linear Models for connecting metabolite composition to individual characteristics. | Farage, Gregory ...5 more... Sen, Šaunak | 0 0 0 0 | bioRxiv | 2023 | Nov 23, 2025 (just now) |

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|--------------------------|--|--|---|-----------|---|---|--|------|-------------------------|
| 39985215 | 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 | Nov 23, 2025 (just now) |
| 39707873 | 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 | 2025 | Nov 23, 2025 (just now) |
| 40863167 | 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 | 2025 | Nov 23, 2025 (just now) |
| 40600951 | Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting. | Dasgupta, Aneesha ...11 more... Doles, Jason D | 0 | 0 | 0 | 0 | J Exp Med | 2025 | Nov 23, 2025 (just now) |

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|--------------------------|--|---|---------|------------------------------|------|-------------------------|
| 39257804 | 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 | 2024 | Nov 23, 2025 (just now) |
| 40074083 | 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 | Nov 23, 2025 (just now) |
| 40308032 | 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 | Nov 23, 2025 (just now) |
| 40932625 | 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 | Nov 23, 2025 (just now) |

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|--------------------------|--|--|------|-------------------------|
| | Rahiminejad, Sara ...2 more... Subramanianam, Shankar | 0 0 0 0 Res Sq | 2024 | Nov 23, 2025 (just now) |
| 38826219 | Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can... | Carvalho, Diego ...9 more... Arredondo, Florencia | 2025 | Nov 23, 2025 (just now) |
| 39448026 | Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes. | J Proteomics | 2025 | Nov 23, 2025 (just now) |
| 40441152 | Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp... | Tamir, Tigist Y ...15 more... White, Forest M | 2025 | Nov 23, 2025 (just now) |
| 38102827 | Modeling transcriptional regulation of the cell cycle using a novel cybernetic-inspired approach. | Raja, Rubesh ...5 more... Ramkrishna, | 2024 | Nov 23, 2025 (just now) |

| | | Doraiswami | | | | | |
|--|--|--|---|---|---|---|--------|
| 38313293  | Metabolic abnormalities in the bone marrow cells of young offspring born to obese mothers. | Alina, Maloyan ...4 more... | 0 | 0 | 0 | 0 | Res Sq |
| 37546759  | Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate... | Kumar, Sushil Miller, Anne ...7 more... | 0 | 0 | 0 | 0 | Res Sq |

| Name | Description | Stars | Watchers | Forks | Issues | PRs | Commits | Contrib. |
|--------------------------|---|-------|----------|-------|--------|-----|---------------------|-------------------------|
| 39754192 | common enotypes across PSEN1, PSEN2, and APP mutations in familial... | more | No data | 0 | 0 | 4 | Alzheimers Res Ther | 2025 5 (just now) |

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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. Pellati, Federica |
| Only the main/default branch is considered for metrics like # of commits. Khanum, Sana | |
| # of dependencies is totaled from all manifests in repo, direct and transitive, e.g. package.json + package-lock.json. | |
| Modeling enzyme competition in ...5 | Nov 23, 2023 |
| 2020-2023 | 2020-2023 |

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 Nov 23, 2025

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

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|----------------------------|---|------------------|---|---|---|---|--------------|-----|-------------|
| 40759793 ↗ | Left ventricular myocardial molecular profile of human diabetic ischaemic cardiomyopathy. | Hunter, Benjamin | 0 | 0 | 1 | 1 | EMBO Mol Med | 202 | Nov |
| DOI ↗ | | ...16 | | | | | | 5 | 23, 2025 |

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|--|--|-------------------------|
| | more... | (just now) |
| | Lal, Sean | |
| | | |
| | Mitchell, | |
| | Dana V | |
| | ...10 | |
| | more... | |
| | Falk, | |
| | Marni J | |
| 40791373  | ndufs2^{-/-} zebrafish have impaired survival, neuromuscular activity, morphology, and on... | Nov 23, 2025 (just now) |
| DOI  | | 2025 (just now) |
| | 0 0 1 1 bioRxiv | |

Notes

RCR [Relative Citation Ratio !\[\]\(55acab083b8cbf36d4a75f262b6ea94a_img.jpg\)](#)

SJR [Scimago Journal Rank !\[\]\(41034d0756eb325b49f9c2da00394e36_img.jpg\)](#)



