



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. 54 3	18. 28 8	50	50	Nature	2024	Nov 10, 2025 (just now)
34862502  DOI 	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 10, 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. 49 9	0	31	31	Nat Cancer	2024	Nov 10, 2025 (just now)
39979287  DOI 	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 10, 2025 (just now)

40369079  DOI 	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	5.001	18.288	10	10	Nature	2025	Nov 10, 2025 (just now)
38165806  DOI 	Metabolic reprogramming by histone deacetylase inhibition preferentially targets NRF2-activated t...	Karagiannis, Dimitris ...11 more... Lu, Chao	4.253	0	17	17	Cell Rep	2024	Nov 10, 2025 (just now)
40670786  DOI 	Imidazole propionate is a driver and therapeutic target in atherosclerosis.	Mastrangelo, Annalaura ...37 more... Sancho, David	4.005	18.288	8	8	Nature	2025	Nov 10, 2025 (just now)
39420002  DOI 	Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro...	Xia, Chaoyi ...13 more... Wang, Yang	3.756	0	15	15	Nat Commun	2024	Nov 10, 2025 (just now)









37798473  DOI 	Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate...	Miller, Anne ...7 more... Yellen, Gary	3.719	0	26	13	Nat Metab	2023	Nov 10, 2025 (just now)
38636516  DOI 	Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids.	Dingare, Chaitanya ...3 more... Steventon, Benjamin	3.543	0	19	19	Dev Cell	2024	Nov 10, 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	3.54	0	25	12.5	Nat Commun	2023	Nov 10, 2025 (just now)
39300135  DOI 	Gut symbiont-derived sphingosine modulates vector competence in Aedes mosquitoes.	Sun, Xiaomei ...12 more... Zou, Zhen	2.993	0	8	8	Nat Commun	2024	Nov 10, 2025 (just now)









38286827  DOI 	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 10, 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. 75 8	0	13	13	Nat Commun	2024	Nov 10, 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. 72 9	0	11	11	Dev Cell	2024	Nov 10, 2025 (just now)
38172157  DOI 	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 10, 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. 33 5	0	12	12	Cell Rep	2024	Nov 10, 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. 26 7	0	16	8	Int J Tryptophan Res	2023	Nov 10, 2025 (just now)
39206133  DOI 	Phosphate availability conditions caspofungin tolerance, capsule attachment and titan cell format...	Qu, Xianya ...7 more... Kronstad, James W	2. 20 4	0	6	6	Front Fungal Biol	2024	Nov 10, 2025 (just now)
37452018  DOI 	Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis.	Takata, Nozomu ...16 more... Oliver, Guillermo	2. 19 2	0	20	10	Nat Commun	2023	Nov 10, 2025 (just now)







34721400  DOI 	Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechani...	Mukund, Kavitha ...6 more... Subramaniam, Shankar	1. 83 6	0	34	8.5	Front Immunol	2021	Nov 10, 2025 (just now)
38226418  DOI 	Fatty acid metabolism promotes TRPV4 activity in lung microvascular endothelial cells in pulmonar...	Philip, Nicolas ...20 more... Suresh, Karthik	1. 80 3	0	6	6	Am J Physiol Lung Cell Mol Physiol	2024	Nov 10, 2025 (just now)
38318337  DOI 	Exploring the interplay between running exercises, microbial diversity, and tryptophan metabolism...	Vazquez-Medina, Alejandra ...6 more... Chorna, Nataliya	1. 79 6	0	5	5	Front Microbiol	2024	Nov 10, 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. 26 4	0	13	6.5	Cell Rep	2023	Nov 10, 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. 25 4	0	6	3	Front Endocrinol (Lausanne)	2023	Nov 10, 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. 21 5	0	6	6	Elife	2024	Nov 10, 2025 (just now)
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. 14	0	3	3	J Proteome Res	2024	Nov 10, 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. 05 7	0	8	4	Commun Biol	2023	Nov 10, 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	0.936	0	3	3	Int J Obes (Lond)	2024	Nov 10, 2025 (just now)
38926365  DOI 	METTL3-mediated chromatin contacts promote stress granule phase separation through metabolic repr...	Wang, Chen ...17 more... Zhang, Rugang	0.877	0	5	5	Nat Commun	2024	Nov 10, 2025 (just now)
38761133  DOI 	Differential impact of sex on regulation of skeletal muscle mitochondrial function and protein ho...	Welch, Nicole ...14 more... Dasarathy, Srinivasan	0.809	0	3	3	J Physiol	2024	Nov 10, 2025 (just now)
37515770  DOI 	The stability of the myelinating oligodendrocyte transcriptome is regulated by the nuclear lamina.	Pruvost, Mathilde ...16 more... Casaccia, Patrizia	0.713	0	7	3.5	Cell Rep	2023	Nov 10, 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	0.671	0	2	2	J Biol Chem	2024	Nov 10, 2025 (just now)
37849634  DOI 	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzhei...	Patel, Ashay O ...2 more... Subramaniam, Shankar	0.616	0	4	2	J Alzheimers Dis Rep	2023	Nov 10, 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	0.554	0	3	3	Int J Cancer	2024	Nov 10, 2025 (just now)
38975764  DOI 	Taurine modulates host cell responses to Helicobacter pylori VacA toxin.	Westland, Mandy D ...5 more... Cover, Timothy L	0.549	0	2	2	Infect Immun	2024	Nov 10, 2025 (just now)









39702518  DOI 	Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula...	Hunter, Benjamin ...11 more... Lal, Sean	0.496	0	2	2	Commun Biol	2024	Nov 10, 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	0.473	0	1	1	Toxicol Sci	2024	Nov 10, 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	0.451	1.363	1	1	iScience	2024	Nov 10, 2025 (just now)
35448980  DOI 	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramaniam, Shankar	0.422	0	6	2	BMC Cancer	2022	Nov 10, 2025 (just now)









38339304  DOI 	Molecular Atlas of HER2+ Breast Cancer Cells Treated with Endogenous Ligands: Temporal Insights i...	Mukund, Kavitha ...10 more... Subramaniam, Shankar	0.257	0	1	1	Cancers (Basel)	2024	Nov 10, 2025 (just now)
39415993  DOI 	The molecular chronology of mammary epithelial cell fate switching.	Vallmajó-Martin, Queralt ...7 more... Lytle, Nikki K	0.201	0	1	1	bioRxiv	2024	Nov 10, 2025 (just now)
37983749  DOI 	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more... Subramaniam, Shankar	0.155	0	2	0.667	Gigascience	2022	Nov 10, 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	0.14	0	1	0.5	bioRxiv	2023	Nov 10, 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	Nov 10, 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	Nov 10, 2025 (just now)
38826219 DOI ↗	Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can...	Rahiminejad, Sara ...2 more... Subramaniam, Shankar	0	0	0	0	Res Sq	2024	Nov 10, 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	2025	Nov 10, 2025 (just now)
39824876  DOI 	Unveiling cellular changes in leukaemia cell lines after cannabidiol treatment through lipidomics.	Chamoso-Sanchez, David ...6 more... Pellati, Federica	0	0	1	1	Sci Rep	2025	Nov 10, 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	Nov 10, 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	Nov 10, 2025 (just now)

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	2025	Nov 10, 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	Nov 10, 2025 (just now)
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	Nov 10, 2025 (just now)
40751246  DOI 	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 10, 2025 (just now)

40791373  DOI 	ndufs2 ^{-/-} zebrafish have impaired survival, neuromuscular activity, morphology, and on...	Mitchell, Dana V ...10 more... Falk, Marni J	0	0	1	1	bioRxiv	2025	Nov 10, 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	Nov 10, 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	2024	Nov 10, 2025 (just now)
39395792  DOI 	Modeling enzyme competition in eicosanoid metabolism in macrophage cells using a cybernetic frame...	Khanum, Sana ...5 more... Ramkrishna, Doraiswami	0	0	0	0	J Lipid Res	2024	Nov 10, 2025 (just now)

39448026  DOI 	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more... Arredondo, Florencia	0	0	0	0	J Proteomics	2025	Nov 10, 2025 (just now)
39707873  DOI 	Salivary Metabolomic Signatures in Pediatric Eosinophilic Esophagitis.	Hiremath, Girish ...6 more... Locke, Andrea	0	3.622	2	2	Allergy: European Journal of Allergy and Clinical Immunology	2025	Nov 10, 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	Nov 10, 2025 (just now)
39990419  DOI 	Spatially distinct cellular and molecular landscapes define prognosis in triple negative breast c...	Mukund, Kavitha ...13 more... Subramaniam, Shankar	0	0	1	1	bioRxiv	2025	Nov 10, 2025 (just now)

Avg Issue/PR Average time issues/pull requests stay open for before being closed.

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

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Metabolomics Network Analysis of

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 10, 2025

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

[38102827](#) 
DOI 

Modeling transcriptional regulation of the cell cycle using a novel cybernetic-inspired approach.

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Biophys J

2024 Nov 10, 2025 (just now)

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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	Nov 10, 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	202 5	Nov 10, 2025 (just now)	

Notes

RCR [Relative Citation Ratio](#)
SJR [Scimago Journal Rank](#)

