



## Core Project OT2OD030544











### Details









Projects	Name	Award	Publications	Repositories	Analytics
3OT2OD030544-01S4	Biomedical Data Commons Workbench (BDCW)	\$3,229,346.00	70 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
<a href="#">39143213</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">34862502</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38844817</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">39979287</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)









<a href="#">40369079</a>  <a href="#">DOI</a> 	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	5.001	18.288	10	10	Nature	2025	Nov 24, 2025 (just now)
<a href="#">38165806</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">40670786</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">39420002</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)

<a href="#">37798473</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38636516</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">37349305</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">39300135</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)









<a href="#">38286827</a> <a href="#">DOI</a> <a href="#">↗</a>	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 24, 2025 (just now)
<a href="#">38714664</a> <a href="#">DOI</a> <a href="#">↗</a>	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 24, 2025 (just now)
<a href="#">39305905</a> <a href="#">DOI</a> <a href="#">↗</a>	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 24, 2025 (just now)
<a href="#">38172157</a> <a href="#">DOI</a> <a href="#">↗</a>	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 24, 2025 (just now)









<a href="#">39535921</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">37441265</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">39206133</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">37452018</a>  <a href="#">DOI</a> 	Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis.	Takata, Nozomu ...16 more... Oliver, Guillermo	2. 19 2	0	20	10	Nat Commun	2023	Nov 24, 2025 (just now)









<a href="#">34721400</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38226418</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38318337</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">37815914</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)









<a href="#">38161977</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38813868</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38018851</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38001239</a>  <a href="#">DOI</a> 	IL-1 $\beta$ -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 24, 2025 (just now)



















<a href="#">38937647</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38926365</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38761133</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">37515770</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)









<a href="#">39307306</a>  <a href="#">DOI</a> 	Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and $\alpha$ -ketoglutarate...	Giovanne rcole, Fabio ...4 more... De Biase, Daniela	0.671	0	2	2	J Biol Chem	2024	Nov 24, 2025 (just now)
<a href="#">37849634</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38651675</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38975764</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)







<a href="#">39702518</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38544285</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">39328933</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">35448980</a>  <a href="#">DOI</a> 	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramaniam, Shankar	0.422	0	6	2	BMC Cancer	2022	Nov 24, 2025 (just now)

<a href="#">37983749</a>  <a href="#">DOI</a> 	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more... Subramaniam, Shankar	0.155	0	2	0.667	Gigascience	2022	Nov 24, 2025 (just now)
<a href="#">37398141</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">40074083</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">40600951</a>  <a href="#">DOI</a> 	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more... Doles, Jason D	0	0	0	0	J Exp Med	2025	Nov 24, 2025 (just now)

<a href="#">39754192</a>  <a href="#">DOI</a> 	Integrative multiomics reveals common endotypes across PSEN1, PSEN2, and APP mutations in familia...	Valdes, Phoebe ...9 more... Subramaniam, Shankar	0	0	4	4	Alzheimers Res Ther	2025	Nov 24, 2025 (just now)
<a href="#">39824876</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">38826219</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">40166866</a>  <a href="#">DOI</a> 	Severe Cognitive Decline in Long-term Care Is Related to Gut Microbiome Production of Metabolites...	Shoubridge, Andrew P ...17 more...	0	0	3	3	J Gerontol A Biol Sci Med Sci	2025	Nov 24, 2025 (just now)

		Rogers, Geraint B								
<a href="#">40308032</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)	
<a href="#">39985215</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)	
<a href="#">40312501</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)	
<a href="#">40863167</a>  <a href="#">DOI</a> 	Metabolomics Network Analysis of Various Genotypes Associated with Schizophrenia Gene Variant.	Rajula, Hema Sekhar Reddy ...8 more...	0	0.9 96	0	0	Metabolites	2025	Nov 24, 2025 (just now)	

		Fanos, Vassilios									
<a href="#">40751246</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)		
<a href="#">40791373</a>  <a href="#">DOI</a> 	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	Nov 24, 2025 (just now)		
<a href="#">38313293</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)		
<a href="#">38187579</a>  <a href="#">DOI</a> 	Matrix Linear Models for connecting metabolite composition to individual characteristics.	Farage, Gregory ...5 more... Sen, Śaunak	0	0	0	0	bioRxiv	2023	Nov 24, 2025 (just now)		

<a href="#">39707873</a>  <a href="#">DOI</a> 	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 24, 2025 (just now)
<a href="#">41238532</a>  <a href="#">DOI</a> 	The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient C...	Grubb, Treg ...25 more... Chakraborty, Abhishek A	0	0	0	0	Nat Commun	2025	Nov 24, 2025 (just now)
<a href="#">39448026</a>  <a href="#">DOI</a> 	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more... Arredondo, Florencia	0	0	0	0	J Proteomics	2025	Nov 24, 2025 (just now)





<a href="#">39464135</a> <a href="#">DOI</a> <a href="#">↗</a>	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes.	Atser, Michael G ...12 more... Johnson, James D	0	0	0	0	bioRxiv	2025	Nov 24, 2025 (just now)
<a href="#">40052831</a> <a href="#">DOI</a> <a href="#">↗</a>	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	Nov 24, 2025 (just now)
<a href="#">40759793</a> <a href="#">DOI</a> <a href="#">↗</a>	Left ventricular myocardial molecular profile of human diabetic ischaemic cardiomyopathy.	Hunter, Benjamin ...16 more... Lal, Sean	0	0	1	1	EMBO Mol Med	2025	Nov 24, 2025 (just now)
<a href="#">40828023</a> <a href="#">DOI</a> <a href="#">↗</a>	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 24, 2025 (just now)

### </> Repositories

Software repositories associated with this project.

Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.
<a href="#">DOI</a> <a href="#">↗</a>	neuroendocrine marker expression,	matthew j ...23	No data					5 24, 2025

Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies
		and nucleotide abundance in prost...		more...	No data				(just now)
				Goldstein, Andrew S					
Notes									
Repository		For storing, tracking changes to, and collaborating on a piece of software.		Raja, Rubeen					Nov 24, 2025 (just now)
PR		"Pull request", a draft change (new feature, bug fix, etc.) to a repo.		5 more...					
38102827 		Modeling transcriptional regulation of the cell cycle using a novel Resolved/Unresolved cybernetic-inspired approach.		Ramkrish na	0	0	0	0	Biophys J
Closed/Open									202 4
Avg Issue/PR		Average time issues/pull requests stay open for before being closed.		Doraiswa mi					
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.									
		Spatially resolved metabolomics		Miller, Anne					Nov 24,
37546750 				7					333

## Analytics

Traffic metrics of websites associated with this project.

## Notes

- Active Users [Distinct users who visited the website !\[\]\(cf5be311f7b2821912d8009884508fa2\_img.jpg\)](#).
- New Users [Users who visited the website for the first time !\[\]\(9804e70d96ff9fe9899b264c06a33cd7\_img.jpg\)](#).
- Engaged Sessions [Visits that had significant interaction !\[\]\(4f49380f3d6bce047bc47b2072cc076f\_img.jpg\)](#).

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

Built on Nov 24, 2025

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

frame...		Ramkrishna, Doraiswami										now)
<a href="#">40441152</a> <a href="#">DOI</a>	Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp...	Tamir, Tigist Y ...15 more... White, Forest M	0	0	2	2	Mol Cell	2025				Nov 24, 2025 (just now)
<a href="#">40932625</a> <a href="#">DOI</a>	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 24, 2025 (just now)

Notes

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

