



## (Core Project OT2OD030544)

### Overview

High-level info about this project.

Projects	Name	Award	Publications	Repositories
3OT2OD030544-01S4	Biomedical Data Commons	\$3,229,346.00	75 publications	0 repositories
3OT2OD030544-01S2	Workbench (BDCW)			
1OT2OD030544-01				
3OT2OD030544-01S3				
3OT2OD030544-01S1				

### Analytics

0 properties

## 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>	Mitochondrial complex I promotes kidney cancer metastasis.	Bezwada, Divya ...36 more... DeBerardini, Ralph J	8. 65 5	18. 28 8	54	54	Nature	2024	Dec 10, 2025 (just now)
<a href="#">40670786</a>	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 10, 2025 (just now)

<a href="#">38844817</a>	Nucleotide metabolism in cancer cells fuels a UDP-driven macrophage cross-talk, promoting immunos...	Scolaro, Tommaso ...36 more... Mazzone, Massimilia no	5. 80 3	0	35	35	Nat Cancer	2024	Dec 10, 2025 (just now)
<a href="#">39979287</a>	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	2025	Dec 10, 2025 (just now)
<a href="#">34862502</a>	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	2022	Dec 10, 2025 (just now)
<a href="#">40369079</a>	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	4. 99 1	18. 28 8	10	10	Nature	2025	Dec 10, 2025 (just now)

<a href="#">37798473</a>	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	2023	Dec 10, 2025 (just now)
<a href="#">38165806</a>	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 10, 2025 (just now)
<a href="#">38636516</a>	Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids.	Dingare, Chaitanya ...3 more... Steventon, Benjamin	3. 57 7	0	20	20	Dev Cell	2024	Dec 10, 2025 (just now)
<a href="#">39420002</a>	Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro...	Xia, Chaoyi ...13 more... Wang, Yang	3. 49 7	0	15	15	Nat Commun	2024	Dec 10, 2025 (just now)

<a href="#">37349305</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. 39 9	0	25	12. 5	Nat Commun	2023	Dec 10, 2025 (just now)
<a href="#">39300135</a>	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 10, 2025 (just now)
<a href="#">39754192</a>	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 10, 2025 (just now)
<a href="#">38714664</a>	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 10, 2025 (just now)

<a href="#">39305905</a>	DRMY1 promotes robust morphogenesis in <i>Arabidopsis</i> 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 10, 2025 (just now)
<a href="#">38286827</a>	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 10, 2025 (just now)
<a href="#">38318337</a>	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 10, 2025 (just now)
<a href="#">37441265</a>	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 10, 2025 (just now)

<a href="#">39206133</a>	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 10, 2025 (just now)
<a href="#">38172157</a>	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 10, 2025 (just now)
<a href="#">37452018</a>	Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis.	Takata, Nozomu ...16 more... Oliver, Guillermo	2. 25	0	21	10. 5	Nat Commun	2023	Dec 10, 2025 (just now)
<a href="#">38226418</a>	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 10, 2025 (just now)
<a href="#">39535921</a>	Cancer-associated fibroblasts maintain critical pancreatic cancer cell lipid homeostasis in the t...	Han, Xu ...13 more...	2. 17 6	0	12	12	Cell Rep	2024	Dec 10, 2025

		Simon, M Celeste		(just now)
<a href="#">34721400</a>	Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechanism...	Mukund, Kavitha ...6 more... Subramanian, Shankar	1. 86 5	0    35    8.7 5
				Front Immunol
				2021
<a href="#">38161977</a>	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
<a href="#">37815914</a>	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
<a href="#">38813868</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. 13 2	0    6    6
				Elife
				2024
				(just now)

<a href="#">38018851</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. 06 3 3	0	3	J Proteome Res	2024	Dec 10, 2025 (just now)
<a href="#">38001239</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. 01 3	0	8	4	Commun Biol	2023
<a href="#">38926365</a>	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
<a href="#">38937647</a>	Metabolic abnormalities in the bone marrow cells of young offspring born to mothers with obesity.	Phillips, Elysse A ...4 more... Maloyan, Alina	0. 87 2	0	3	3	Int J Obes (Lond)	2024

<a href="#">38761133</a>	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 10, 2025 (just now)
<a href="#">37515770</a>	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 10, 2025 (just now)
<a href="#">39307306</a>	Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and α-ketoglutarate...	Giovanner cole, Fabio ...4 more... De Biase, Daniela	0. 62 5	0	2	2	J Biol Chem	2024	Dec 10, 2025 (just now)
<a href="#">37849634</a>	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzheimer's Disease	Patel, Ashay O ...2 more... Subramanian, Shankar	0. 59 2	0	4	2	J Alzheimers Dis Rep	2023	Dec 10, 2025 (just now)

<a href="#">38651675</a>	A nested case-control study of untargeted plasma metabolomics and lung cancer among never-smoking...	Rahman, Mohamm ad L ...12 more... Lan, Qing	0. 51 7	0 3 3	Int J Cancer	2024	Dec 10, 2025 (just now)
<a href="#">38975764</a>	Taurine modulates host cell responses to Helicobacter pylori VacA toxin.	Westland, Mandy D ...5 more... Cover, Timothy L	0. 51 2	0 2 2	Infect Immun	2024	Dec 10, 2025 (just now)
<a href="#">39702518</a>	Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula...	Hunter, Benjamin ...11 more... Lal, Sean	0. 46 2	0 2 2	Commun Biol	2024	Dec 10, 2025 (just now)
<a href="#">38544285</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. 44 1	0 1 1	Toxicol Sci	2024	Dec 10, 2025 (just now)

<a href="#">39328933</a>	Deletion of <i>Kcnj16</i> altered transcriptomic and metabolomic profiles of Dahl salt-sensitive ...	Xu, Biyang ...4 more... Starusche nko, Alexander	0. 42	1.3 63	1	1	iScience	2024	Dec 10, 2025 (just now)
<a href="#">35448980</a>	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramanian, Shankar	0. 41 1	0	6	2	BMC Cancer	2022	Dec 10, 2025 (just now)
<a href="#">38826219</a>	Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can...	Rahiminejad, Sara ...2 more... Subramanian, Shankar	0. 32 9	0	1	1	Res Sq	2024	Dec 10, 2025 (just now)
<a href="#">37983749</a>	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more... Subramanian, Shankar	0. 15 1	0	2	0.6 67	Gigascience	2022	Dec 10, 2025 (just now)

<a href="#">37398141</a>	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	2023	Dec 10, 2025 (just now)
<a href="#">40074083</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	Dec 10, 2025 (just now)
<a href="#">39824876</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	Dec 10, 2025 (just now)
<a href="#">40308032</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	Dec 10, 2025 (just now)
<a href="#">40828023</a>	Synergistic action of specialized metabolites from divergent	Loop Yao, McKenna ...7 more...	0	0	2	2	Proc Natl Acad Sci U S A	2025	Dec 10, 2025

	biosynthesis in the human oral micro...	Zhang, Wenjun						(just now)
<a href="#">41266305</a>	A taxon-specific measurement of disruption in a multi-modal study of microbiomes and metabolomes ...	Fouladi, F ...10 more... Peddada, S D	0	0	0	0	Nat Commun	Dec 10, 2025 (just now)
<a href="#">38102827</a>	Modeling transcriptional regulation of the cell cycle using a novel cybernetic-inspired approach.	Raja, Rubesh ...5 more... Ramkrishna, Doraiswami	0	0	0	0	Biophys J	Dec 10, 2025 (just now)
<a href="#">38187579</a>	Matrix Linear Models for connecting metabolite composition to individual characteristics.	Farage, Gregory ...5 more... Sen, Śaunak	0	0	0	0	bioRxiv	Dec 10, 2025 (just now)
<a href="#">37546759</a>	Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate...	Miller, Anne ...7 more... Yellen, Gary	0	0	0	0	Res Sq	Dec 10, 2025 (just now)

<a href="#">39985215</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	Dec 10, 2025 (just now)
<a href="#">39448026</a>	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more... Arredondo , Florencia	0    0    0    0	J Proteomics	2025	Dec 10, 2025 (just now)
<a href="#">40166866</a>	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 10, 2025 (just now)
<a href="#">40052831</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	Dec 10, 2025 (just now)
<a href="#">40863167</a>	Metabolomics Network Analysis of Various Genotypes Associated with Schizophrenia Gene Variant.	Rajula, Hema Sekhar Reddy	0    0.9    0    96	Metabolites	2025	Dec 10, 2025

<a href="#">41005293</a>	Intra-tumoral hypoxia promotes CD8 <sup>+</sup> T cell dysfunction via chronic activation of integrins	...8 more...	Fanos, Vassilios								(just now)
<a href="#">40502162</a>	OGDHL regulates tumor growth, neuroendocrine marker expression, and nucleotide abundance in prostate cancer	Alicea Pauneto, Coral Del Mar ...22 more... Thaxton, Jessica E	Bernard, Matthew J ...23 more... Goldstein, Andrew S	0 0 0 0	Immunity	bioRxiv	2025	Dec 10, 2025 (just now)			
<a href="#">40751246</a>	Metabolomic profiling reveals interindividual metabolic variability and its association with cardiovascular risk factors	Zhou, Meng ...8 more... Ma, Shizhan		0 0 1 1	Cardiovasc Diabetol	Nat Commun	2025	Dec 10, 2025 (just now)			
<a href="#">41238532</a>	The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient c...	Grubb, Treg ...25 more...		0 0 3 3			2025	Dec 10, 2025			

		Chakraborty, Abhishek A						(just now)
<a href="#">41251214</a>	Surface acoustic wave hemolysis assay for evaluating stored red blood cells.	Song, Meiou ...6 more... Ding, Xiaoyun	0	0	0	0	Lab Chip	Dec 10, 2025 (just now)
<a href="#">38313293</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	Dec 10, 2025 (just now)
<a href="#">39257804</a>	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	Dec 10, 2025 (just now)
<a href="#">39464135</a>	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes.	Atser, Michael G ...12 more... Johnson, James D	0	0	0	0	bioRxiv	Dec 10, 2025 (just now)

## </> Repositories

		Gao, Virginia	Software repositories associated with this project.							Dec 10, 2025
<a href="#">40312501</a>	Synaptic vesicle-omics in mice captures signatures of aging and	...14 ----	0 0 0 0	Nat Commun	202					
<hr/>										
Name	Description	Tags	Last Commit	Stars	Forks	Watchers	Commits	Issues	PRs	
No data										
<hr/>										
	Metabolome analysis as a potential	Wojtyła, Cezary								Dec 10
Name	Issue Avg	PR Avg	Readme	Contributing	Code of Con.	License	Contrib.	Languages	Dependencies	
No data										
<hr/>										
<b>Notes</b>										
Repository	Modeling enzyme competition in eicosanoid metabolism	Khanum, Sana								Dec 10,
<a href="#">3995792</a>	For storing, tracking changes to, and collaborating on a piece of software.	5 more	Ramkrishn	0 0 0 0	J Lipid Res	202				2025
PR DOI	"Pull requests add a timestamped feature, bug fix, etc.) to a repo." frame	a,				4				(just now)
Closed/Open	Resolved/unresolved.	Doraiswa								
Issue/PR Avg	Average time issues/pull requests stay open for before being closed.									
<hr/>										
Only the main/default branch is considered for metrics like # of commits.										
# of dependencies	Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp...	Tigist Y ...15 more...	0 0 2 2	Mol Cell	202					Dec 10, 2025
<a href="#">40441152</a>	is totaled from all manifests in repo, direct and transitive, e.g. package.json + package-lock.json.	White, Forest M				5				(just now)



Website metrics 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.

<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	Dec 10, 2025 (just now)
<a href="#">41068133 ↗</a> <a href="#">DOI ↗</a>	Multomics analysis of the Silkworm cocoon shell.	Fragkou, Panagiota ...11 more... Dedos, Skarlatos G	0 0 0 0	Sci Data	2025	Dec 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

Dec 10, 2025 (just now)  
2025

[40791373](#) ↗  
[DOI](#) ↗

ndufs2<sup>-/-</sup> zebrafish have impaired survival, neuromuscular activity, morphology, and on...

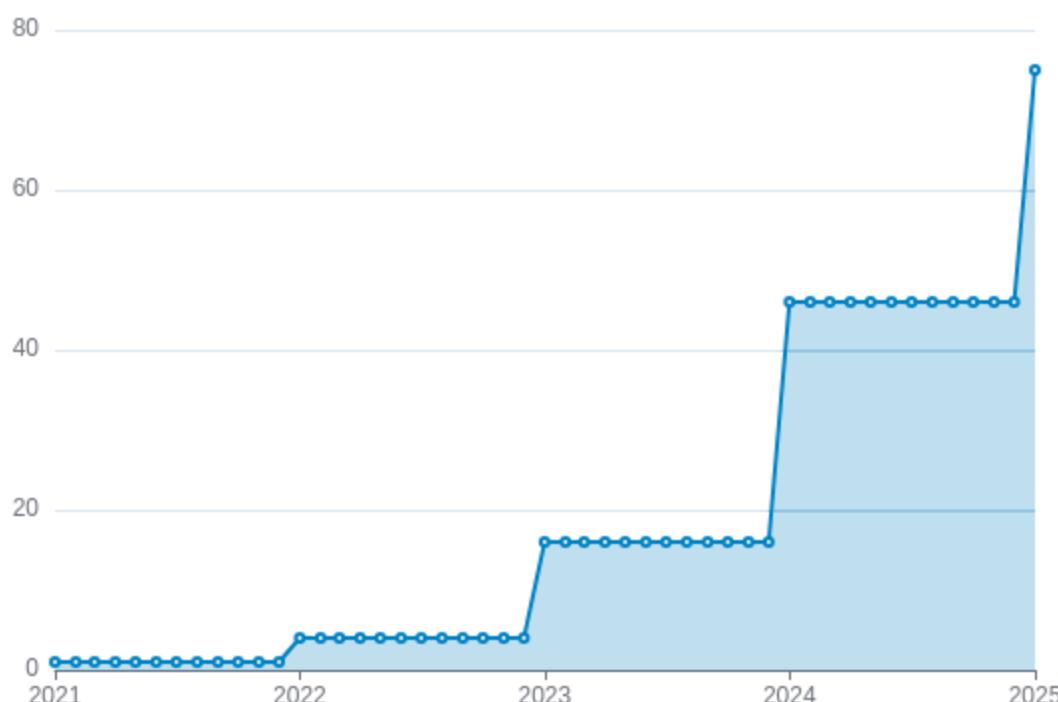
Mitchell,  
Dana V  
...10  
more...  
Falk,

0 0 1 1 bioRxiv

Dec 10, 2025 (just now)  
2025

### Publications (cumulative)

Total: 75



## Notes

RCR [Relative Citation Ratio ↗](#)

SJR [Scimago Journal Rank ↗](#)