



## (Core Project OT2OD030544)

### ⓘ Details

Projects	Name	Award	Publications	Repositories	Analytics
3OT2OD030544-01S2	Biomedical Data Commons	\$3,229,346.00	75 publications	0 repositories	0 properties
3OT2OD030544-01S4	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 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	202 4	Dec 8, 202 5 (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	202 5	Dec 8, 202 5 (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, Massimiliano	5. 80 3	0	35	35	Nat Cancer	202 4	Dec 8, 202 5 (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 8, 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 8, 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 8, 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 8, 2025 (just now)

											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 8, 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 8, 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 8, 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	3. 39 9	0	25	12.	Nat Commun	2023	Dec 8, 202		



<a href="#">39305905</a>	<a href="#">DOI</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 8, 2025 (just now )
<a href="#">38286827</a>	<a href="#">DOI</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 8, 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	2. 50 2	0	8	8	Front Microbiol	2024	Dec 8, 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 8, 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 8, 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 8, 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	202 3	Dec 8, 202 5 (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	202 4	Dec 8, 202 5 (just now )
<a href="#">39535921</a>	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	202 4	Dec 8, 202 5 (just now )

<a href="#">34721400</a>	<a href="#">DOI</a>	Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechanism...	Mukund, Kavitha ...6 more... Subramaniam, Shankar	1. 86 5	0 35	8.7 5	Front Immunol	2021	Dec 8, 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. 36 3	0 7	3.5	Front Endocrinol (Lausanne)	2023	Dec 8, 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. 21 2	0 13	6.5	Cell Rep	2023	Dec 8, 2025 (just now)

<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	Dec 8, 2025 (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	0	3	3	J Proteome Res	2024	Dec 8, 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	Dec 8, 2025 (just now )

<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	Dec 8, 2025 (just now )
<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	Dec 8, 2025 (just now )
<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 8, 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	202 3	Dec 8, 202 5 (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	202 4	Dec 8, 202 5 (just now )
<a href="#">37849634</a>	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzheimer's Disease	Patel, Ashay O ...2 more... Subramani am, Shankar	0. 59 2	0	4	2	J Alzheimers Dis Rep	202 3	Dec 8, 202 5 (just now )

<a href="#">38651675</a>	A nested case-control study of untargeted plasma metabolomics and lung cancer among never-smoking...	Rahman, Mohamma d L ...12 more... Lan, Qing	0. 51 7	0	3	3	Int J Cancer	202 4	Dec 8, 202 5 (just now )
<a href="#">38975764</a>	Taurine modulates host cell responses to <i>Helicobacter pylori</i> VacA toxin.	Westland, Mandy D ...5 more... Cover, Timothy L	0. 51 2	0	2	2	Infect Immun	202 4	Dec 8, 202 5 (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	202 4	Dec 8, 202 5 (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,	0. 44 1	0	1	1	Toxicol Sci	202 4	Dec 8, 202 5 (just

	Kymberly M								now )
<a href="#">39328933</a>	Deletion of <i>Kcnj16</i> altered transcriptomic and metabolomic profiles of Dahl salt-sensitive ...	Xu, Biyang ...4 more...	0. 42	1.3 63	1	1	iScience	202 4	Dec 8, 202 5 (just now )
<a href="#">35448980</a>	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more...	0. 41	0	6	2	BMC Cancer	202 2	Dec 8, 202 5 (just now )
<a href="#">38826219</a>	Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can...	Rahiminejad, Sara ...2 more...	0. 32	0	1	1	Res Sq	202 4	Dec 8, 202 5 (just now )
<a href="#">37983749</a>	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more...	0. 15	0	2	0.6 67	Gigascience	202 2	Dec 8, 202

		Subramani am, Shankar		5 (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 0 1 0.5 bioRxiv	Dec 8, 202 3 (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	Dec 8, 202 5 (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	Dec 8, 202 5 (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 8, 2025 (just now)
<a href="#">40828023</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	Dec 8, 2025 (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	2025	Dec 8, 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	2023	Dec 8, 2025 (just now)

											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 8, 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 8, 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 8, 2025 (just now)					
<a href="#">39448026</a> 	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more...	0 0 0 0	J Proteomics	2025	Dec 8, 2025					

		Arredondo , Florencia					5 (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 8, 2025 (just now)
<a href="#">38187579</a>	Matrix Linear Models for connecting metabolite composition to individual characteristics.	Farage, Gregory ...5 more... Sen, Šaunak	0	0	0	0	bioRxiv Dec 8, 2025 (just now)
<a href="#">40863167</a>	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 Dec 8, 2025 (just now)

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

---

ty,  
Abhishek  
A

)

now

Dec  
8,

202  
5  
(just  
now  
)

[41251214](#) ↗  
[DOI](#) ↗

Surface acoustic wave hemolysis assay for evaluating stored red blood cells.

[Song, Metou...6 more...](#) 0 0 0 Lab Chip

[Ding, Xiaoyun](#)

Software repositories associated with this project.

Repositories

---

Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.
<a href="#">40312501</a> ↗ <a href="#">DOI</a> ↗	Synaptic vesicle-omics in mice captures signatures of aging and synucleinopathy.	118	...14 more... Ríurré	No data 0	0 0 0	0	Nat Commun	202 5 (just now )

---

Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies
<a href="#">N39464135</a> ↗ <a href="#">DOI</a> ↗	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes.	Atser, Michael G ...12 more...	No data	0 0 0	0	bioRxiv	Dec 8,	202 5 (just now )	
Repository	For storing, tracking changes to, and collaborating on a piece of software.	James D.							

---

Closed/Open	Resolved/unresolved.	Tamir,	0 0 0	0	bioRxiv	202	Dec 8,		
<a href="#">39257804</a> ↗ <a href="#">DOI</a> ↗	Structural and systems								

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 8, 2025

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

---

[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	Dec 8, 202 5 (just now )
---	---	-----------	---	---	---	--

<a href="#">39395792</a>	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	Dec 8, 2025 (just now )
<a href="#">40441152</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	Dec 8, 2025 (just now )
<a href="#">41068133</a>	Multomics analysis of the Silkworm cocoon shell.	Fragkou, Panagiota ...11 more... Dedos, Skarlatos G	0    0    0    0	Sci Data	2025	Dec 8, 2025 (just now )
<a href="#">40932625</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 8, 2025 (just

										now	)
<a href="#">40759793</a>	Left ventricular myocardial molecular profile of human diabetic ischaemic cardiomyopathy.	Hunter, Benjamin ...16 more...	0	0	1	1	EMBO Mol Med	2025	Dec 8, 2025 (just now)		
<a href="#">DOI</a>	<a href="#">ndufs2&lt;sup&gt;-/-&lt;/sup&gt; zebrafish have impaired survival, neuromuscular activity, morphology, and on...</a>	Mitchell, Dana V ...10 more...	0	0	1	1	bioRxiv	2025	Dec 8, 2025 (just now)		
<a href="#">40600951</a>	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more...	0	0	0	0	J Exp Med	2025	Dec 8, 2025 (just now)		
		Doles, Jason D									

## Notes

RCR [Relative Citation Ratio](#)

SJR [Scimago Journal Rank](#)

## Publications (cumulative)

Total: 75

