



## Core Project OT2OD030544









### Details









Projects	Name	Award	Publications	Repositories	Analytics
3OT2OD030544-01S2	Biomedical Data Commons	\$3,229,346.00	66 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>  <a href="#">DOI</a> 	Mitochondrial complex I promotes kidney cancer metastasis.	Bezwada, Divya ...36 more... DeBerardinis, Ralph J	9. 28 1	18. 28 8	39	39	Nature	2024	Sep 14, 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	6. 41 8	0	26	26	Nat Cancer	2024	Sep 14, 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. 59 7	0	49	16. 333	Nat Methods	2022	Sep 14, 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. 91 1	0	16	16	Dev Cell	2024	Sep 14, 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. 81 7	0	24	12	Nat Metab	2023	Sep 14, 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. 62	0	12	12	Nat Commun	2024	Sep 14, 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. 61 9	0	23	11. 5	Nat Commun	2023	Sep 14, 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	3.442	0	12	12	Cell Rep	2024	Sep 14, 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	3.054	0	12	12	Nat Cancer	2024	Sep 14, 2025 (just now)
<a href="#">39305905</a>  <a href="#">DOI</a> 	DRMY1 promotes robust morphogenesis in Arabidopsis by sustaining the translation of cytokinin-sig...	Kong, Shuyao ...10 more... Roeder, Adrienne H K	2.595	0	9	9	Dev Cell	2024	Sep 14, 2025 (just now)
<a href="#">38172157</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	2.215	0	7	7	Sci Rep	2024	Sep 14, 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. 08 6	0	13	6.5	Int J Tryptophan Res	2023	Sep 14, 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. 04 2	0	17	8.5	Nat Commun	2023	Sep 14, 2025 (just now)
<a href="#">38714664</a>  <a href="#">DOI</a> 	FGFR inhibition blocks NF-κB-dependent glucose metabolism and confers metabolic vulnerabilities i...	Zhen, Yuanli ...11 more... Bardeesy, Nabeel	1. 99 3	0	7	7	Nat Commun	2024	Sep 14, 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. 81	0	32	8	Front Immunol	2021	Sep 14, 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	1. 78 1	0	7	7	Cell Rep	2024	Sep 14, 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	1. 71	0	5	5	Front Fungal Biol	2024	Sep 14, 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. 54 9	0	6	6	Elife	2024	Sep 14, 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. 29 3	0	12	6	Cell Rep	2023	Sep 14, 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	1.07	0	5	2.5	Front Endocrinol (Lausanne)	2023	Sep 14, 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	0.83	0	6	3	Commun Biol	2023	Sep 14, 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	0.783	0	7	3.5	Cell Rep	2023	Sep 14, 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	0.476	0	3	1.5	J Alzheimers Dis Rep	2023	Sep 14, 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	0.464	0	6	2	BMC Cancer	2022	Sep 14, 2025 (just now)
<a href="#">37983749</a>  <a href="#">DOI</a> 	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more... Subramaniam, Shankar	0.163	0	2	0.667	Gigascience	2022	Sep 14, 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	0.15	0	1	0.5	bioRxiv	2023	Sep 14, 2025 (just now)
<a href="#">37546759</a>  <a href="#">DOI</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	Sep 14, 2025 (just now)











<a href="#">39707873</a> <a href="#">DOI</a> <a href="#">↗</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	Sep 14, 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	Sep 14, 2025 (just now)
<a href="#">38226418</a> <a href="#">DOI</a> <a href="#">↗</a>	Fatty acid metabolism promotes TRPV4 activity in lung microvascular endothelial cells in pulmonar...	Philip, Nicolas ...20 more... Suresh, Karthik	0	0	2	2	Am J Physiol Lung Cell Mol Physiol	2024	Sep 14, 2025 (just now)
<a href="#">38318337</a> <a href="#">DOI</a> <a href="#">↗</a>	Exploring the interplay between running exercises, microbial diversity, and tryptophan metabolism...	Vazquez-Medina, Alejandra ...6 more... Chorna, Nataliya	0	0	4	4	Front Microbiol	2024	Sep 14, 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	Sep 14, 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	0	0	2	2	Nat Commun	2024	Sep 14, 2025 (just now)
<a href="#">38102827</a>  <a href="#">DOI</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	2024	Sep 14, 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	Sep 14, 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, Mohamm ad L ...12 more... Lan, Qing	0	0	3	3	Int J Cancer	2024	Sep 14, 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... Fanos, Vassilios	0	0.996	0	0	Metabolites	2025	Sep 14, 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	0	0	2	2	J Proteome Res	2024	Sep 14, 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	0	1	1	Toxicol Sci	2024	Sep 14, 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	0	3	3	J Physiol	2024	Sep 14, 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	0	2	2	Infect Immun	2024	Sep 14, 2025 (just now)
<a href="#">39257804</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	0	0	bioRxiv	2024	Sep 14, 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	Sep 14, 2025 (just now)
<a href="#">39464135</a>  <a href="#">DOI</a> 	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes.	Atser, Michael G ...12 more... Johnson, James D	0	0	0	0	bioRxiv	2025	Sep 14, 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	0	3	3	Nat Commun	2024	Sep 14, 2025 (just now)
<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	Sep 14, 2025 (just now)

<a href="#">40751246</a> <a href="#">DOI</a> <a href="#">↗</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	Sep 14, 2025 (just now)
<a href="#">38313293</a> <a href="#">DOI</a> <a href="#">↗</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	Sep 14, 2025 (just now)
<a href="#">40369079</a> <a href="#">DOI</a> <a href="#">↗</a>	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	0	18.288	5	5	Nature	2025	Sep 14, 2025 (just now)
<a href="#">39985215</a> <a href="#">DOI</a> <a href="#">↗</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	Sep 14, 2025 (just now)
<a href="#">39824876</a> <a href="#">DOI</a> <a href="#">↗</a>	Unveiling cellular changes in leukaemia cell lines after	Chamoso-Sanchez, David	0	0	0	0	Sci Rep	2025	Sep 14, 2025

	cannabidiol treatment through lipidomics.	...6 more... Pellati, Federica								(just now)
<a href="#">39328933</a> <a href="#">DOI</a> <a href="#">↗</a>	Deletion of <i>Kcnj16</i> altered transcriptomic and metabolomic profiles of Dahl salt-sensitive ...	Xu, Biyang ...4 more... Staruschenko, Alexander	0	1.363	1	1	iScience	2024	Sep 14, 2025 (just now)	
<a href="#">39395792</a> <a href="#">DOI</a> <a href="#">↗</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	Sep 14, 2025 (just now)	
<a href="#">39702518</a> <a href="#">DOI</a> <a href="#">↗</a>	Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula...	Hunter, Benjamin ...11 more... Lal, Sean	0	0	2	2	Commun Biol	2024	Sep 14, 2025 (just now)	
<a href="#">40312501</a> <a href="#">DOI</a> <a href="#">↗</a>	Synaptic vesicle-omics in mice captures signatures of aging and	Gao, Virginia	0	0	0	0	Nat Commun	2025	Sep 14,	

	synucleinopathy.	...14 more... Burré, Jacqueline								2025 (just now)
<a href="#">40502162</a>  <a href="#">DOI</a> 	OGDHL regulates nucleotide metabolism, tumor growth, and neuroendocrine marker expression in pros...	Bernard, Matthew J ...19 more... Goldstein, Andrew S	0	0	0	0	bioRxiv	2025	Sep 14, 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	0	0	bioRxiv	2025	Sep 14, 2025 (just 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	0	0	Mol Cell	2025	Sep 14, 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...	...22 more... Tsenkova, Mina	0	0	7	7	Nat Commun	2025	Sep 14, 2025	

Repositories

Software repositories associated with this project.

Repositories

Software repositories associated with this project.



Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.					
No data													
			Letellier, Elisabeth					(just now)					
Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies				
<a href="#">39754192</a> <a href="#">DOI</a> <a href="#">Notes</a>	Integrative multiomics reveals common endotypes across PSEN1, PSEN2, and APP mutations in familia...			No data		Phoebe ...9 more...	0	0	1	1	Alzheimers Res Ther	2025	Sep 14, 2025 (just now)
	Repository			For storing, tracking changes to, and collaborating on a piece of software.		Shankar							
	PR			"Pull request", a draft change (new feature, bug fix, etc.) to a repo.		Cioraghe, rcole,							
<a href="#">39307306</a> <a href="#">DOI</a>	Closed/Open			Resolved/unresolved.		Integrated multi-omics unveil the Average time issues/pull requests stay open for before being closed.		1	1	1	J Biol Chem	2024	Sep 14, 2025 (just now)
	Avg Issue/PR			Impact of H-phosphinic analogs of glutamate and α-ketoglutarate...		more...							
	Only the main/default branch is considered for metrics like # of commits.					De Biase,							
# of dependencies is totaled from all manifests in repo, direct and transitive, e.g. package.json + package-lock.json.				Daniela									
			Phillips,									Sep	



## 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 Sep 14, 2025

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

<a href="#">40166866</a> <a href="#">DOI</a> <a href="#">↗</a>	Severe Cognitive Decline in Long-term Care Is Related to Gut Microbiome Production of Metabolites...	Andrew P ...17 more... Rogers, Geraint B	0	0	0	0	J Gerontol A Biol Sci Med Sci	2025	14, 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	0	0	Proc Natl Acad Sci U S A	2025	Sep 14, 2025 (just now)
<a href="#">40600951</a> <a href="#">DOI</a> <a href="#">↗</a>	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more... Doles, Jason D	0	0	0	0	J Exp Med	2025	Sep 14, 2025 (just now)

Notes

RCR [Relative Citation Ratio](#) [↗](#)

SJR [Scimago Journal Rank](#) [↗](#)

## Publications (cumulative)

Total: 66

