



Core Project OT2OD030544









Details









Projects	Name	Award	Publications	Repositories	Analytics
3OT2OD030544-01S4	Biomedical Data Commons Workbench (BDCW)	\$3,229,346.00	66 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	9. 28 1	18. 28 8	39	39	Nature	2024	Sep 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	6. 41 8	0	26	26	Nat Cancer	2024	Sep 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. 59 7	0	49	16. 333	Nat Methods	2022	Sep 10, 2025 (just now)









38636516  DOI 	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 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. 81 7	0	24	12	Nat Metab	2023	Sep 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. 62	0	12	12	Nat Commun	2024	Sep 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. 61 9	0	23	11. 5	Nat Commun	2023	Sep 10, 2025 (just now)







38165806 DOI ↗	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 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	3.054	0	12	12	Nat Cancer	2024	Sep 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	2.595	0	9	9	Dev Cell	2024	Sep 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	2.215	0	7	7	Sci Rep	2024	Sep 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. 08 6	0	13	6.5	Int J Tryptophan Res	2023	Sep 10, 2025 (just now)
37452018  DOI 	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 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	1. 99 3	0	7	7	Nat Commun	2024	Sep 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. 81	0	32	8	Front Immunol	2021	Sep 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	1. 78 1	0	7	7	Cell Rep	202 4	Sep 10, 2025 (just now)
39206133  DOI 	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	202 4	Sep 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. 54 9	0	6	6	Elife	202 4	Sep 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. 29 3	0	12	6	Cell Rep	202 3	Sep 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	1.07	0	5	2.5	Front Endocrinol (Lausanne)	2023	Sep 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	0.83	0	6	3	Commun Biol	2023	Sep 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	0.783	0	7	3.5	Cell Rep	2023	Sep 10, 2025 (just now)
37849634  DOI 	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzhei...	Patel, Ashay O ...2 more... Subramaniam, Shankar	0.476	0	3	1.5	J Alzheimers Dis Rep	2023	Sep 10, 2025 (just now)









35448980  DOI 	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramaniam, Shankar	0.464	0	6	2	BMC Cancer	2022	Sep 10, 2025 (just now)
37983749  DOI 	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more... Subramaniam, Shankar	0.163	0	2	0.667	Gigascience	2022	Sep 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	0.15	0	1	0.5	bioRxiv	2023	Sep 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	0	0	2	2	Am J Physiol Lung Cell Mol Physiol	2024	Sep 10, 2025 (just now)









38102827  DOI 	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 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	Sep 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	Sep 10, 2025 (just now)









38318337  DOI 	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 10, 2025 (just now)
38651675  DOI 	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 10, 2025 (just now)
39300135  DOI 	Gut symbiont-derived sphingosine modulates vector competence in Aedes mosquitoes.	Sun, Xiaomei ...12 more... Zou, Zhen	0	0	2	2	Nat Commun	2024	Sep 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	Sep 10, 2025 (just now)









40052831 DOI ↗	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 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	Sep 10, 2025 (just now)
40863167 DOI ↗	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 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,	0	0	2	2	J Proteome Res	2024	Sep 10, 2025 (just now)

		Meredith D								
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	0	1	1	Toxicol Sci	2024	Sep 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	Sep 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	Sep 10, 2025 (just now)	
39257804 DOI ↗	Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp...	Tamir, Tigist Y ...15 more...	0	0	0	0	bioRxiv	2024	Sep 10, 2025	

		White, Forest M								(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	0	3	3	J Physiol	2024	Sep 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	0	3	3	Nat Commun	2024	Sep 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	0	2	2	Infect Immun	2024	Sep 10, 2025 (just now)	
40308032  DOI 	Integrated Multiomics Analyses of the Molecular Landscape of Sarcopenia in Alcohol-Related Liver ...	Welch, Nicole ...13 more... Dasarathy	0	0	0	0	J Cachexia Sarcopenia Muscle	2025	Sep 10, 2025 (just now)	


		, Srinivasan								
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	Sep 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	0	0	Sci Rep	2025	Sep 10, 2025 (just now)	
40369079  DOI 	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	0	18.288	5	5	Nature	2025	Sep 10, 2025 (just now)	
39395792  DOI 	Modeling enzyme competition in eicosanoid metabolism in macrophage cells using a cybernetic frame...	Khanum, Sana ...5 more... Ramkrish	0	0	0	0	J Lipid Res	2024	Sep 10, 2025 (just now)	

		na, Doraiswa mi								
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	Sep 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	0	2	2	Commun Biol	2024	Sep 10, 2025 (just now)	
40502162  DOI 	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 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	Sep 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	1.363	1	1	iScience	2024	Sep 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	Sep 10, 2025 (just now)
40791373  DOI 	<i>ndufs2</i> ^{-/-} zebrafish have impaired survival, neuromuscular activity, morphology, and on...	Mitchell, Dana V ...10 more... Falk, Marni J	0	0	0	0	bioRxiv	2025	Sep 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	0	0	7	7	Nat Commun	2025	Sep 10, 2025 (just now)

 **Repositories**

Software repositories associated with this project.

Name	Description		Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.
No data									
				Phillips, Elvise A					Sep
Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies
DOI 		born to mothers with obesity.			more... No data Maloyan, Alina				4 (just now)

Notes				Rahiminejad, Sara				Sep 10, 2025 (just now)			
Repository 38826219 DOI	For string tracking changes to a collaborator on a piece of software.			more...	0	0	0	0	Res Sq	2024	
PR DOI	stage- and side-specificity of gene. "Pull request", a draft change (new feature, bug fix, etc.) to a repo.			Subramaniam, Shankar							
Closed/Open	Resolved/unresolved.										
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.				Giovane rcole, Fabio				Sep 10, 2025 (just now)			
# of dependencies is totaled from all manifests in repo, direct and transitive, e.g. package.json + package-lock.json.	Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and α-ketoglutarate			...4	0	0	1	1	J Biol Chem	2024	

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 10, 2025

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

		niam, Shankar							now)
40441152 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	Mol Cell	2025	Sep 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	0	0	J Gerontol A Biol Sci Med Sci	2025	Sep 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	0	0	Proc Natl Acad Sci U S A	2025	Sep 10, 2025 (just now)

[40600951](#) [DOI](#)

Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.

Dasgupta,
Aneesha
...11
more...
Doles,
Jason D

0 0 0 0 J Exp Med

2025

Sep 10, 2025 (just now)

Notes

RCR [Relative Citation Ratio](#)

SJR [Scimago Journal Rank](#)

