



Core Project OT2OD030544









Details









Projects	Name	Award	Publications	Repositories	Analytics
3OT2OD030544-01S4	Biomedical Data Commons	\$3,229,346.00	73 publications	0 repositories	0 properties
3OT2OD030544-01S2	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
39143213  DOI 	Mitochondrial complex I promotes kidney cancer metastasis.	Bezwada, Divya ...36 more... DeBerardinis, Ralph J	8. 65 5	18. 28 8	54	54	Nature	2024	Dec 7, 2025 (just now)
40670786  DOI 	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 7, 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	5. 80 3	0	35	35	Nat Cancer	2024	Dec 7, 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	5. 48 8	0	11	11	Nat Commun	202 5	Dec 7, 2025 (just now)
34862502  DOI 	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	202 2	Dec 7, 2025 (just now)
40369079  DOI 	Taurine from tumour niche drives glycolysis to promote leukaemogenesis.	Sharma, Sonali ...21 more... Bajaj, Jeevisha	4. 99 1	18. 28 8	10	10	Nature	202 5	Dec 7, 2025 (just now)
37798473  DOI 	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	202 3	Dec 7, 2025 (just now)









38165806  DOI 	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 7, 2025 (just now)
38636516  DOI 	Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids.	Dingare, Chaitanya ...3 more... Steventon, Benjamin	3.577	0	20	20	Dev Cell	2024	Dec 7, 2025 (just now)
39420002  DOI 	Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro...	Xia, Chaoyi ...13 more... Wang, Yang	3.497	0	15	15	Nat Commun	2024	Dec 7, 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	3.399	0	25	12.5	Nat Commun	2023	Dec 7, 2025 (just now)







39300135  DOI 	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 7, 2025 (just now)
39754192  DOI 	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 7, 2025 (just now)
38714664  DOI 	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 7, 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. 75 8	0	12	12	Dev Cell	2024	Dec 7, 2025 (just now)









38286827  DOI 	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 7, 2025 (just now)
38318337  DOI 	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 7, 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. 44 8	0	18	9	Int J Tryptophan Res	2023	Dec 7, 2025 (just now)
39206133  DOI 	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 7, 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. 36 3	0	9	9	Sci Rep	2024	Dec 7, 2025 (just now)
37452018  DOI 	Lactate-dependent transcriptional regulation controls mammalian eye morphogenesis.	Takata, Nozomu ...16 more... Oliver, Guillermo	2. 25	0	21	10. 5	Nat Commun	2023	Dec 7, 2025 (just now)
38226418  DOI 	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 7, 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	2. 17 6	0	12	12	Cell Rep	2024	Dec 7, 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. 86 5	0	35	8.7 5	Front Immunol	2021	Dec 7, 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. 36 3	0	7	3.5	Front Endocrinol (Lausanne)	2023	Dec 7, 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. 21 2	0	13	6.5	Cell Rep	2023	Dec 7, 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. 13 2	0	6	6	Elife	2024	Dec 7, 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, Meredith D	1.063	0	3	3	J Proteome Res	2024	Dec 7, 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	1.013	0	8	4	Commun Biol	2023	Dec 7, 2025 (just now)
38926365  DOI 	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 7, 2025 (just now)
38937647  DOI 	Metabolic abnormalities in the bone marrow cells of young offspring born to mothers with obesity.	Phillips, Elysse A ...4 more... Maloyan, Alina	0.872	0	3	3	Int J Obes (Lond)	2024	Dec 7, 2025 (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. 75 4	0	3	3	J Physiol	2024	Dec 7, 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. 68 4	0	7	3.5	Cell Rep	2023	Dec 7, 2025 (just now)
39307306  DOI 	Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and α -ketoglutarate...	Giovanne rcole, Fabio ...4 more... De Biase, Daniela	0. 62 5	0	2	2	J Biol Chem	2024	Dec 7, 2025 (just now)









37849634  DOI 	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzhei...	Patel, Ashay O ...2 more... Subramaniam, Shankar	0.592	0	4	2	J Alzheimers Dis Rep	2023	Dec 7, 2025 (just now)
38651675  DOI 	A nested case-control study of untargeted plasma metabolomics and lung cancer among never-smoking...	Rahman, Mohammad L ...12 more... Lan, Qing	0.517	0	3	3	Int J Cancer	2024	Dec 7, 2025 (just now)
38975764  DOI 	Taurine modulates host cell responses to Helicobacter pylori VacA toxin.	Westland, Mandy D ...5 more... Cover, Timothy L	0.512	0	2	2	Infect Immun	2024	Dec 7, 2025 (just now)
39702518  DOI 	Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regula...	Hunter, Benjamin ...11 more... Lal, Sean	0.462	0	2	2	Commun Biol	2024	Dec 7, 2025 (just now)

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	0.441	0	1	1	Toxicol Sci	2024	Dec 7, 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	0.42	1.363	1	1	iScience	2024	Dec 7, 2025 (just now)
35448980  DOI 	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramaniam, Shankar	0.411	0	6	2	BMC Cancer	2022	Dec 7, 2025 (just now)
38826219  DOI 	Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can...	Rahiminejad, Sara ...2 more... Subrama	0.329	0	1	1	Res Sq	2024	Dec 7, 2025 (just now)

		niam, Shankar								
37983749  DOI 	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan , Sumana ...3 more... Subrama niam, Shankar	0. 15 1	0	2	0.6 67	Gigascience	202 2	Dec 7, 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. 13 4	0	1	0.5	bioRxiv	202 3	Dec 7, 2025 (just now)	
39257804  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	bioRxiv	202 4	Dec 7, 2025 (just now)	
39448026  DOI 	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more... Arredond	0	0	0	0	J Proteomics	202 5	Dec 7, 2025 (just now)	

		O, Florenxia									
40863167  DOI 	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	202 5	Dec 7, 2025 (just now)		
41068133  DOI 	Multionics analysis of the Silkworm cocoon shell.	Fragkou, Panagiota ...11 more... Dedos, Skarlatos G	0	0	0	0	Sci Data	202 5	Dec 7, 2025 (just now)		
41238532  DOI 	The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient c...	Grubb, Treg ...25 more... Chakrabo rty, Abhishek A	0	0	3	3	Nat Commun	202 5	Dec 7, 2025 (just now)		

40308032  DOI 	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 7, 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	Dec 7, 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	Dec 7, 2025 (just now)
40502162  DOI 	OGDHL regulates tumor growth, neuroendocrine marker expression, and nucleotide abundance in prost...	Bernard, Matthew J ...23 more... Goldstein, Andrew S	0	0	0	0	bioRxiv	2025	Dec 7, 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	2	2	Proc Natl Acad Sci U S A	202 5	Dec 7, 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	202 4	Dec 7, 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	202 5	Dec 7, 2025 (just now)
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	202 5	Dec 7, 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	Dec 7, 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	Dec 7, 2025 (just now)
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	Dec 7, 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	2025	Dec 7, 2025 (just now)

40600951 DOI	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more...	0	0	0	0	J Exp Med	2025	Dec 7, 2025 (just now)
<div><div></></div><div>Repositories</div></div>									
39395792 DOI	Modeling enzyme components in eicosanoid metabolism in macrophage cells using a cybernetic	Khanum, Sana ...5 more...	0	0	0	0	J Lipid Res	2024	Dec 7, 2025 ..
Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.	
mi No data									

Raja,												
Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies			
38102827 DOI	🔗	Modeling transcriptional regulation of the cell cycle using a novel cybernetic-inspired approach.			more, No data Ramkrishna, Doraiswami	0	0	0	0	Biophys J	2024	/, 2025 (just now)
Notes												

Repository	For storing, tracking changes to, and collaborating on a piece of software.
PR	"Pull request", a draft change (new feature, bug fix, etc.) to a repo.
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.

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 7, 2025

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

Publications									
40791373 DOI	ndufs2 ^{<sup>-/-</sup>} zebrafish have impaired survival, neuromuscular activity, morphology, and on...	Mitchell, Dana V ...10 more...	0	0	1	1	bioRxiv	2025	Dec 7, 2025 (just now)
		Falk, Marni J							

40932625  DOI 	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 7, 2025 (just now)
41251214  DOI 	Surface acoustic wave hemolysis assay for evaluating stored red blood cells.	Song, Meiou ...6 more... Ding, Xiaoyun	0	0	0	0	Lab Chip	2025	Dec 7, 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	Dec 7, 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	3	3	J Gerontol A Biol Sci Med Sci	2025	Dec 7, 2025 (just now)

[41266305](#) [DOI](#)

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 7, 2025 (just now)

Notes

RCR [Relative Citation Ratio](#)

SJR [Scimago Journal Rank](#)

