



(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
39143213	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 9, 2025 (just now)
40670786	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 9, 2025 (just now)
38844817	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 9, 2025 (just now)

39979287	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 9, 2025 (just now)
34862502	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser.	Petas, Daniel ...33 more... Wang, Mingxun	5. 43 8	0	53	17. 667	Nat Methods	2022	Dec 9, 2025 (just now)
40369079	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 9, 2025 (just now)
37798473	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 9, 2025 (just now)

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38165806	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 9, 2025 (just now)		
38636516	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 9, 2025 (just now)		
39420002	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 9, 2025 (just now)		
37349305	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 9, 202		

		more... Lehtinen, Maria K								5 (just now)
39300135 	Gut symbiont-derived sphingosine modulates vector competence in Aedes mosquitoes.	Sun, Xiaomei ...12 more... Zou, Zhen	3. 19 8	0	9	9	Nat Commun		202 4	Dec 9, 202 5 (just now)
39754192 	Integrative multiomics reveals common endotypes across PSEN1, PSEN2, and APP mutations in familia...	Valdes, Phoebe ...9 more... Subramani am, Shankar	3. 00 8	0	6	6	Alzheimers Res Ther		202 5	Dec 9, 202 5 (just now)
38714664 	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		202 4	Dec 9, 202 5 (just now)

	Kong, Shuyao ...10 more... Roeder, Adrienne H K	2. 75 8	0	12	12	Dev Cell	202 4	Dec 9, 202 5 (just now)
39305905	DRMY1 promotes robust morphogenesis in <i>Arabidopsis</i> by sustaining the translation of cytokinin-sig...	Rogava, Meri ...43 more... Izar, Benjamin	2. 73 5	0	15	15	Nat Cancer	202 4
38286827	Loss of Pip4k2c confers liver-metastatic organotropism through insulin-dependent PI3K-AKT pathway...	Vazquez-Medina, Alejandra ...6 more... Chorna, Nataliya	2. 50 2	0	8	8	Front Microbiol	202 4
38318337	Exploring the interplay between running exercises, microbial diversity, and tryptophan metabolism...							Dec 9, 202 5 (just now)

37441265	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 9, 2025 (just now)
39206133	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 9, 2025 (just now)
38172157	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 9, 2025 (just now)

37452018	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 9, 202 5 (just now)
38226418	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 9, 202 5 (just now)
39535921	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 9, 202 5 (just now)

34721400	DOI	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 9, 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 9, 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 9, 2025 (just now)

38813868	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 9, 2025 (just now)
38018851	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 9, 2025 (just now)
38001239	IL-1 β -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 9, 2025 (just now)

38926365	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 9, 2025 (just now)
38937647	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 9, 2025 (just now)
38761133	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 9, 2025 (just now)

37515770	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 9, 202 5 (just now)
39307306	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 9, 202 5 (just now)
37849634	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzheimer's Disease	Patel, Ashay O ...2 more... Subramaniam, Shankar	0. 59 2	0	4	2	J Alzheimers Dis Rep	202 3	Dec 9, 202 5 (just now)

38651675	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 9, 202 5 (just now)
38975764	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	202 4	Dec 9, 202 5 (just now)
39702518	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 9, 202 5 (just now)
38544285	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 9, 202 5 (just

	Kymberly M								now)
39328933	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 9, 202 5 (just now)
35448980	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more...	0. 41	0	6	2	BMC Cancer	202 2	Dec 9, 202 5 (just now)
38826219	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 9, 202 5 (just now)
37983749	MetGENE: gene-centric metabolomics information retrieval tool.	Srinivasan, Sumana ...3 more...	0. 15	0	2	0.6 67	Gigascience	202 2	Dec 9, 202

	Subramani am, Shankar	5 (just now)
37398141	Deficiency of the lipid flippase ATP10A causes diet-induced dyslipidemia in female mice. Norris, Adriana C 0. ...7 more... 13 0 1 0.5 bioRxiv Graham, 4 Todd R	Dec 9, 202 3 (just now)
40074083	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes. Atser, Michael G ...12 more... 0 0 1 1 J Biol Chem Johnson, James D	Dec 9, 202 5 (just now)
39824876	Unveiling cellular changes in leukaemia cell lines after cannabidiol treatment through lipidomics. Chamoso- Sanchez, David ...6 more... 0 0 1 1 Sci Rep Pellati, Federica	Dec 9, 202 5 (just now)

40308032	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 9, 2025 (just now)
40828023	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 9, 2025 (just now)
41266305	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 9, 2025 (just now)
37546759	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 9, 2025 (just now)

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40052831 	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 9, 2025 (just now)					
39985215 	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 9, 2025 (just now)					
40166866 	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 9, 2025 (just now)					
39448026 	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more...	0 0 0 0	J Proteomics	2025	Dec 9, 2025					

		Arredondo , Florencia					5 (just now)
38102827 	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 9, 2025 (just now)
38187579 	Matrix Linear Models for connecting metabolite composition to individual characteristics.	Farage, Gregory ...5 more... Sen, Šaunak	0	0	0	0	bioRxiv Dec 9, 2025 (just now)
40863167 	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 9, 2025 (just now)

		Alicea Pauneto, Coral Del Mar ...22 more... Thaxton, Jessica E	0 0 0 0	Immunity	2025	Dec 9, 2025 (just now)
41005293	Intra-tumoral hypoxia promotes CD8 ⁺ T cell dysfunction via chronic activation of integ...	Zhou, Meng ...8 more... Ma, Shizhan	0 0 1 1	Cardiovasc Diabetol	2025	Dec 9, 2025 (just now)
40751246	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 9, 2025 (just now)
40502162	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 9, 2025 (just now)
41238532	The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient c...					

		ty, Abhishek A								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 9, 2025 (just now)			

</>Repositories

	Synaptic vesicle-omics in mice captures signatures of aging and synucleinopathy.	Virginia ...14 Software repositories associated with this project. Burré, Jacqueline	0 0 0 0	Nat Commun	2025	Dec 9, 2025 (just now)
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Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.	
				No data					
39464135	Pyruvate dehydrogenase kinase 1 controls triglycerol hydrolysis in	MICHAEL G ...12	0 0 0 0	bioRxiv	2025	2025			
Name	Tags	Last Commit	Issue Avg	PR Avg	Languages	License	Readme	Contributing	Dependencies
				No data					

39257804 Notes	Structural and systems characterization of phosphorylation	Tamir, Tigist Y	0 0 0 0	bioRxiv	2024	Dec 9,
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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.
Issue/PR Avg	Average time issues/pull requests stay open for before being closed. on metabolic enzymes identities ...15
Only the main/default branch is considered for metrics like # of commits. sex-sp more White,	5 (just now)
# of dependencies	is totaled from all manifests in repo, forestMD transitive, e.g. package.json + package-lock.json.

🔍 Analytics

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.

Built on Dec 9, 2025

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

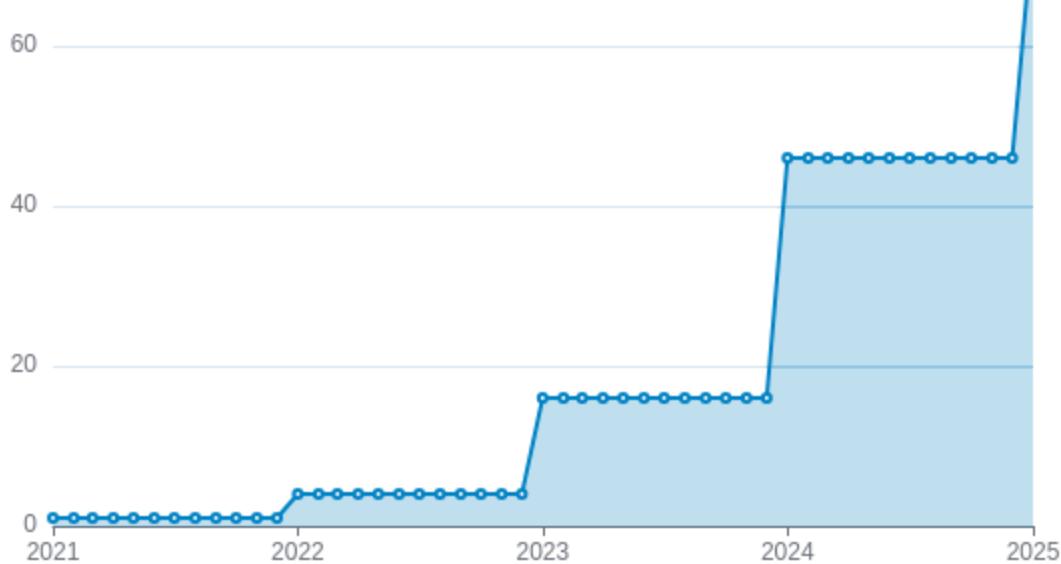
39395/92 ↗ DOI ↗	eicosanoid metabolism in macrophage cells using a cybernetic frame...	Ramkrishna, Doraiswami	0	0	0	0	J Lipid Res	2024	5 (just now)
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40441152	Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp...	Tamir, Tigist Y ...15 more... White, Forest M	0 0 2 2	Mol Cell	2025	Dec 9, 2025 (just now)
40600951	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more... Doles, Jason D	0 0 0 0	J Exp Med	2025	Dec 9, 2025 (just now)
39707873	Salivary Metabolomic Signatures in Pediatric Eosinophilic Esophagitis.	Hiremath, Girish ...6 more... Locke, Andrea	0 3.6 22	Allergy: European Journal of Allergy and Clinical Immunology	2025	Dec 9, 2025 (just now)
40932625	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 9, 2025 (just

								now)
41068133	Multomics analysis of the Silkworm cocoon shell.	Fragkou, Panagiota ...11 more...	0	0	0	0	Sci Data	Dec 9, 2025 (just now)
40759793	Left ventricular myocardial molecular profile of human diabetic ischaemic cardiomyopathy.	Hunter, Benjamin ...16 more...	0	0	1	1	EMBO Mol Med	Dec 9, 2025 (just now)
40791373	ndufs2^{-/-} zebrafish have impaired survival, neuromuscular activity, morphology, and on...	Mitchell, Dana V ...10 more...	0	0	1	1	bioRxiv	Dec 9, 2025 (just now)

Publications (cumulative)

Total: 75



Notes

RCR [Relative Citation Ratio ↗](#)

SJR [Scimago Journal Rank ↗](#)