



## (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
<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	2024	Dec 5, 2025 (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	2025	Dec 5, 2025 (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	2024	Dec 5, 2025 (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 5, 2025 (just now)
<a href="#">34862502</a>	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 5, 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 5, 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 5, 2025 (just now)

		Karagiannis, Dimitris ...11 more... Lu, Chao	3. 96	0	17	17	Cell Rep	2024	Dec 5, 2025 (just now)
<a href="#">38165806</a> ↗ <a href="#">DOI</a> ↗	Metabolic reprogramming by histone deacetylase inhibition preferentially targets NRF2-activated t...	Dingare, Chaitanya ...3 more... Steventon ,	3. 57 7	0	20	20	Dev Cell	2024	Dec 5, 2025 (just now)
<a href="#">38636516</a> ↗ <a href="#">DOI</a> ↗	Mannose controls mesoderm specification and symmetry breaking in mouse gastruloids.	Xia, Chaoyi ...13 more... Wang, Yang	3. 49 7	0	15	15	Nat Commun	2024	Dec 5, 2025 (just now)
<a href="#">39420002</a> ↗ <a href="#">DOI</a> ↗	Methionine-SAM metabolism-dependent ubiquinone synthesis is crucial for ROS accumulation in ferro...	Fame, Ryann M ...21 more... Lehtinen, Maria K	3. 39 9	0	25	12. 5	Nat Commun	2024	Dec 5, 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...							2023	Dec 5, 2025 (just now)

<a href="#">39300135</a>	Gut symbiont-derived sphingosine modulates vector competence in <i>Aedes</i> mosquitoes.	Sun, Xiaomei ...12 more... Zou, Zhen	3. 19 8	0	9	9	Nat Commun	2024	Dec 5, 2025 (just now)
<a href="#">39754192</a>	Integrative multiomics reveals common endotypes across PSEN1, PSEN2, and APP mutations in familia...	Valdes, Phoebe ...9 more... Subrama niam, Shankar	3. 00 8	0	6	6	Alzheimers Res Ther	2025	Dec 5, 2025 (just now)
<a href="#">38714664</a>	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 5, 2025 (just now)
<a href="#">39305905</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 5, 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 5, 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 5, 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. 44 8	0	18	9	Int J Tryptophan Res	2023	Dec 5, 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	2. 41 8	0	7	7	Front Fungal Biol	2024	Dec 5, 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 5, 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	2023	Dec 5, 2025 (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	2024	Dec 5, 2025 (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	2024	Dec 5, 2025 (just now)

<a href="#">34721400</a>	Immune Response in Severe and Non-Severe Coronavirus Disease 2019 (COVID-19) Infection: A Mechanism...	Mukund, Kavitha ...6 more... Subramanian, Shankar	1.865	0	35	8.75	Front Immunol	2021	Dec 5, 2025 (just now)
<a href="#">38161977</a>	Gut microbiota and metabolites in estrus cycle and their changes in a menopausal transition rat m...	Dai, Ruoxi ...5 more... Sun, Yan	1.363	0	7	3.5	Front Endocrinol (Lausanne)	2023	Dec 5, 2025 (just now)
<a href="#">37815914</a>	MYC is a regulator of androgen receptor inhibition-induced metabolic requirements in prostate can...	Crowell, Preston D ...23 more... Goldstein, Andrew S	1.212	0	13	6.5	Cell Rep	2023	Dec 5, 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	1.132	0	6	6	Elife	2024	Dec 5, 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 3	0	3	J Proteome Res	2024	Dec 5, 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 5, 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 5, 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 5, 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, ,	0. 75 4	0	3	3	J Physiol	2024	Dec 5, 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	2023	Dec 5, 2025 (just now)
<a href="#">39307306</a>	Integrated multi-omics unveil the impact of H-phosphinic analogs of glutamate and $\alpha$ -ketoglutarate...	Giovanne rcole, Fabio ...4 more... De Biase, Daniela	0. 62 5	0	2	2	J Biol Chem	2024	Dec 5, 2025 (just now)

<a href="#">37849634</a>	<a href="#">DOI</a>	Endotype Characterization Reveals Mechanistic Differences Across Brain Regions in Sporadic Alzheimer's Disease	Patel, Ashay O...2 more... Subramanian, Shankar	0. 59 2	0 4 2	J Alzheimers Dis Rep	2023	Dec 5, 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, Mohammad L...12 more... Lan, Qing	0. 51 7	0 3 3	Int J Cancer	2024	Dec 5, 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. 51 2	0 2 2	Infect Immun	2024	Dec 5, 2025 (just now)
<a href="#">39702518</a>	<a href="#">DOI</a>	Proteomic and metabolomic analyses of the human adult myocardium reveal ventricle-specific regulation	Hunter, Benjamin...11 more... Lal, Sean	0. 46 2	0 2 2	Commun Biol	2024	Dec 5, 2025 (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, Kymberly M	0. 44 1	0	1	1	Toxicol Sci	2024	Dec 5, 2025 (just now)
<a href="#">39328933</a>	Deletion of <i>Kcnj16</i> altered transcriptomic and metabolomic profiles of Dahl salt-sensitive ...	Xu, Biyang ...4 more... Staruschenko, Alexander	0. 42 1.3 63	1	1	1	iScience	2024	Dec 5, 2025 (just now)
<a href="#">35448980</a>	Modular and mechanistic changes across stages of colorectal cancer.	Rahiminejad, Sara ...2 more... Subramanian, Shankar	0. 41 1	0	6	2	BMC Cancer	2022	Dec 5, 2025 (just now)
<a href="#">38826219</a>	Single-cell transcriptomics reveals stage- and side-specificity of gene modules in colorectal can...	Rahiminejad, Sara ...2 more... Subrama	0. 32 9	0	1	1	Res Sq	2024	Dec 5, 2025 (just now)

	niam, Shankar										
<a href="#">37983749</a>	Srinivasan , Sumana ...3 more... Subrama niam, Shankar	0.	15	0	2	0.6 67	Gigascience	202 2	Dec 5, 2025 (just now)		
<a href="#">37398141</a>	MetGENE: gene-centric metabolomics information retrieval tool.  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 5, 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	202 3	Dec 5, 2025 (just now)		
<a href="#">37546759</a>	Spatially resolved metabolomics and isotope tracing reveal dynamic metabolic responses of dentate...	Miller, Anne ...7 more...	0	0	0	0	Res Sq	202 3	Dec 5, 2025 (just now)		

		Yellen, Gary							
<a href="#">39448026</a>	Untargeted metabolomics of 3xTg-AD neurotoxic astrocytes.	Carvalho, Diego ...9 more... Arredond o, Florencia	0	0	0	0	J Proteomics	2025	Dec 5, 2025 (just now)
<a href="#">39257804</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	Dec 5, 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 5, 2025 (just now)
<a href="#">40308032</a>	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	Dec 5, 2025 (just now)

		Srinivasan						
<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 5, 2025 (just now)
<a href="#">41068133</a>	Multiomics analysis of the Silkworm cocoon shell.	Fragkou, Panagiota ...11 more... Dedos, Skarlatos G	0	0	0	0	Sci Data	Dec 5, 2025 (just now)
<a href="#">41238532</a>	The SLC1A1/EAAT3 dicarboxylic amino acid transporter is an epigenetically dysregulated nutrient c...	Grubb, Treg ...25 more... Chakraborty, Abhishek A	0	0	3	3	Nat Commun	Dec 5, 2025 (just now)

<a href="#">40502162</a>	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 5, 2025 (just now)
<a href="#">38313293</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	Dec 5, 2025 (just now)
<a href="#">39707873</a>	Salivary Metabolomic Signatures in Pediatric Eosinophilic Esophagitis.	Hiremath, Girish ...6 more... Locke, Andrea	0 3.6 22 2	Allergy: European Journal of Allergy and Clinical Immunology	2025	Dec 5, 2025 (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	2025	Dec 5, 2025 (just now)

<a href="#">40312501</a>	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 5, 2025 (just 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 5, 2025 (just now)
<a href="#">39464135</a>	Pyruvate dehydrogenase kinase 1 controls triacylglycerol hydrolysis in cardiomyocytes.	Atser, Michael G ...12 more... Johnson, James D	0    0    0    0	bioRxiv	2025	Dec 5, 2025 (just now)
<a href="#">40600951</a>	Histidine decarboxylase inhibition attenuates cancer-associated muscle wasting.	Dasgupta, Aneesha ...11 more... Doles, Jason D	0    0    0    0	J Exp Med	2025	Dec 5, 2025 (just now)

<a href="#">40759793</a>	<a href="#">DOI</a>	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 5, 2025 (just now)
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## </>Raja Repositories

<a href="#">38102827</a>	<a href="#">DOI</a>	Modeling transcriptional regulation of the cell cycle using a novel cybernetic-inspired approach.	Rubesh ...5	Software repository links associated with this project.	0 0 0 0	Biophys J	2024	Dec 5, 2025 (just)
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Name	Description	Stars	Watchers	Forks	Issues	PRs	Commits	Contrib.
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No data

Khanum,  
Sana

Name	Tags	Last Commit	Avg Issue	Avg PR	Languages	License	Readme	Contributing	Dependencies	DOI	Links
macrophage cells using a cybernetic frame...	bioRxiv preprint	2023-06-01	1 day	1 PR	Python, C++, MATLAB, R	MIT	Yes	Yes	4	2025 (just now)	<a href="#">View</a>

## Notes

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.

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Pellati,

## 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 5, 2025

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

Ramnik J

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Tigist Y

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White,

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now)

Forest M

[40441152 ↗](#)

[DOI ↗](#)

Structural and systems characterization of phosphorylation on metabolic enzymes identifies sex-sp...

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Mol Cell

[40751246](#)   
[DOI](#) 

Metabolomic profiling reveals interindividual metabolic variability and its association with card...

Zhou,  
Meng  
...8  
more...  
Ma,  
Shizhan

0 0 1 1

Cardiovasc Diabetol

Dec 5, 2025 (just now)  
2025

[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

Dec 5, 2025 (just now)  
2025

[40166866](#)   
[DOI](#) 

Severe Cognitive Decline in Long-term Care Is Related to Gut Microbiome Production of Metabolites...

Shoubrid  
ge,  
Andrew P  
...17  
more...  
Rogers,  
Geraint B

0 0 3 3

J Gerontol A Biol Sci  
Med Sci

Dec 5, 2025 (just now)  
2025

[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

Dec 5, 2025 (just now)  
2025

## Notes

