metabolomics

	NCT Number	Title	Authors	Description	Identifier	Dates
1	pubmed:36057143	Integration of pharmacodynamics and metabolomics reveals the therapeutic effects of 6-acetylacteoside on ovariectomy-induced osteoporosis mice	Jingjing Liu Shuqin Ding Lingling Yang Xiaojun Zhao Ruru Ren Yingli Wang Chao Su Jianyu Chen Xueqin Ma	CONCLUSION: Our results revealed the significant anti-osteoporotic effects of 6-AA on ovariectomized mice which were probably exerted via suppression of osteoclast formation and bone resorption.	pmid:36057143 doi:10.1016/j.phymed.2022.154399	Sat, 03 Sep 2022 06:00:00 -0400
2	pubmed:36057161	LDHA-mediated metabolic reprogramming promoted cardiomyocyte proliferation by alleviating ROS and inducing M2 macrophage polarization	Yijin Chen Guangkai Wu Mengsha Li Michael Hesse Yusheng Ma Wei Chen Haoxiang Huang Yu Liu Wenlong Xu Yating Tang Hao Zheng Chuling Li Zhongqiu Lin Guojun Chen Wangjun Liao Yulin Liao Jianping Bin Yanmei Chen	CONCLUSIONS: LDHA-mediated metabolic reprogramming promoted CM proliferation by alleviating ROS and inducing M2 macrophage polarization, indicating that LDHA might be an effective target for promoting cardiac repair post-MI.	pmid:36057161 doi:10.1016/j.redox.2022.102446	Sat, 03 Sep 2022 06:00:00 -0400
3	pubmed:36057287	A combination of neuroimaging and plasma metabolomic analysis suggests inflammation is associated with white matter structural connectivity in major depressive disorder	Jinxue Wei Zijian Zhang Yue Du Xiao Yang Liansheng Zhao Peiyan Ni Rongjun Ni Meng Gong Xiaohong Ma	CONCLUSION: The results suggested inflammation-related mechanism was associated with white matter structural connectivity in MDD.	pmid:36057287 doi:10.1016/j.jad.2022.08.108	Sat, 03 Sep 2022 06:00:00 -0400
4	pubmed:36057402	Cyanidin-3-O-glucoside impacts fecal discharge of polystyrene microplastics in mice: Potential role of microbiota-derived metabolites	Wen Chen Pengcheng Tu Xiang Ye Qiong Tang Ting Yu Xiaodong Zheng	Microplastic particles degraded from plastic litters are recognized as a global environmental pollutant, which can be transferred and enriched via the food chain to impact ecosystems and human health. A balanced gut microbiota contributes to human health through host-gut interactions, environmentally-driven factors such as microplastic exposure would disturb the gut bacteria and affect its functionality. Dietary compounds can remodel the compositions of gut microbes, and interact with bacteria...	pmid:36057402 doi:10.1016/j.taap.2022.116212	Sat, 03 Sep 2022 06:00:00 -0400

	NCT Number	Title	Authors	Description	Identifier	Dates
5	pubmed:36057775	The Biological Hierarchy, Time, and Temporal 'Omics in Evolutionary Biology: A Perspective	Anthony A Snead René D Clark	Sequencing data-genomics, transcriptomics, epigenomics, proteomics, and metabolomics-have revolutionized biological research, enabling a more detailed study of processes, ranging from subcellular to evolutionary, that drive biological organization. These processes, collectively, are responsible for generating patterns of phenotypic variation and can operate over dramatically different timescales (milliseconds to billions of years). While researchers often study phenotypic variation at specific...	pmid:36057775 doi:10.1093/icb/icac138	Sat, 03 Sep 2022 06:00:00 -0400
6	pubmed:36057894	LC-MS metabolomics of urine reveals distinct profiles for non-muscle-invasive and muscle-invasive bladder cancer	Julia Oto Álvaro Fernández-Pardo Marta Roca Emma Plana Fernando Cana Raquel Herranz Javier Pérez-Ardavín César David Vera-Donoso Manuel Martínez-Sarmiento Pilar Medina	CONCLUSION: Ours is the first metabolomics study conducted in urine of a thoroughly characterized cohort comprising all stages of NMIBC, MIBC and healthy controls in which we identified non-invasive diagnostic and staging biomarkers. These may improve BC management, thus reducing the use of current harmful diagnostic techniques.	pmid:36057894 doi:10.1007/s00345-022-04136-7	Sun, 04 Sep 2022 06:00:00 -0400