



Triple Quad™/QTRAP®

靶向代谢/脂质组学发表文章目录(第一卷)



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靶向代谢组学

一、疾病靶向代谢组学

1. Intestinal Microbial Metabolism of Phosphatidylcholine and Cardiovascular Risk. *N Engl J Med* 2013, DOI: 10.1056/NEJMoa1109400 影响因子：72.406.
2. CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/ LKB1-mutant lung cancer cells. *Nature* 2017, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5472349/pdf/nihms867391.pdf> 影响因子：40.137
3. Oxidative stress inhibits distant metastasis by human melanoma cells. *Nature* 2015, doi:10.1038/nature15726 影响因子：40.137
4. Elevated circulating branched chain amino acids are an early event in pancreatic adenocarcinoma development. *Nat Med* 2014, doi:10.1038/nm.3686 影响因子：32.621
5. Intestinal microbiota metabolism of L-carnitine, a nutrient in red meat, promotes atherosclerosis. *Nat Med* 2013, doi:10.1038/nm.3145. 影响因子：32.621
6. De novo fatty acid synthesis controls the fate between regulatory T and T helper 17 cells. *Nat Med* 2014, doi:10.1038/nm.3704 影响因子：32.621
7. Type I interferons and microbial metabolites of tryptophan modulate astrocyte activity and CNS inflammation via the aryl hydrocarbon receptor. *Nat Med* 2016, doi:10.1038/nm.4106 影响因子：32.621
8. Leptin reverses diabetes by suppression of the hypothalamic-pituitary-adrenal axis. *Nat Med* 2014, doi:10.1038/nm.3579 影响因子：32.621
9. Elevation of circulating branched-chain amino acids is an early event in human pancreatic adenocarcinoma development. *Nat Med* 2014, doi:10.1038/nm.3686 影响因子：32.621

10. Retinal lipid and glucose metabolism dictates angiogenesis through lipid sensor Ffar1, Nat Med 2016. doi:10.1038/nm.4059 影响因子：32.621
11. Depletion of a Putatively Druggable Class of Phosphatidylinositol Kinases Inhibits Growth of p53-Null Tumors. Cell 2013, doi:10.1016/j.cell.2013.09.057 影响因子：30.41
12. L-Arginine Modulates T Cell Metabolism and Enhances Survival and Anti-tumor Activity. Cell 2016, doi:10.1016/j.cell.2016.09.031 影响因子：30.41
13. Phosphoinositide 3-Kinase Regulates Glycolysis through Mobilization of Aldolase from the Actin Cytoskeleton. Cell 2016, doi:10.1016/j.cell.2015.12.042 影响因子：30.41
14. Growth Differentiation Factor 11 Is a Circulating Factor that Reverses Age-Related Cardiac Hypertrophy. Cell 2013, doi:10.1016/j.cell.2013.04.015 影响因子：30.41
15. Inhibition of Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. Cell 2016, doi:10.1016/j.cell.2016.08.057 影响因子：30.41
16. Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. Cell 2012, DOI 10.1016/j.cell.2012.01.058 影响因子：30.41
17. Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. Nat Genet 2013, doi:10.1038/ng.890. 影响因子：29.35
18. Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. Nat Genet 2011, doi:10.1038/ng.890 影响因子：29.35
19. Exome-wide analyses identify low-frequency variant in CYP26B1 and additional coding variants associated with esophageal squamous cell carcinoma. Nat Genet 2018 doi:10.1038/s41588-018-0045-8 影响因子：29.35

20. SIRT3 Opposes Reprogramming of Cancer Cell Metabolism through HIF1a Destabilization. *Cancer Cell* 2011, DOI 10.1016/j.ccr.2011.02.014 影响因子：27.407
21. Transcriptional Dependencies in Diffuse Intrinsic Pontine Glioma. *Cancer Cell* 2017, doi:10.1016/j.ccell.2017.03.011 影响因子：27.407
22. mTORC1 Couples Nucleotide Synthesis to Nucleotide Demand Resulting in a Targetable Metabolic Vulnerability. *Cancer Cell* 2017, doi:10.1016/j.ccell.2017.09.013 影响因子：27.407
23. Adaptive Reprogramming of De Novo Pyrimidine Synthesis Is a Metabolic Vulnerability in Triple-Negative Breast Cancer. *cancer discov* 2017, DOI: 10.1158/2159-8290.CD-16-0611 影响因子：24.374
24. C13 or f31 (FAMIN) is a central regulator of immunometabolic function. *Nat Immunol* 2016, doi:10.1038/ni.3532 影响因子：21.506
25. C13orf31 (FAMIN) is a central regulator of immunometabolic function. *Nat Immunol* 2016, doi:10.1038/ni.3532 影响因子：21.506
26. Glutathione biosynthesis is a metabolic vulnerability in PI3K/Akt-driven breast cancer. *Nat Cell Biol* 2016, doi:10.1038/ncb3341. 影响因子：20.06
27. PGC-1 α mediates mitochondrial biogenesis and oxidative phosphorylation to promote metastasis. *Nat Cell Biol* 2014, doi:10.1038/ncb3039. 影响因子：20.06
28. Yap reprograms glutamine metabolism to increase nucleotide biosynthesis and enable liver growth. *Nat Cell Biol* 2016, doi:10.1038/ncb3389 影响因子：20.06
29. Distinct Signaling of Coreceptors Regulates Specific Metabolism Pathways and Impacts Memory Development in CAR T Cells Immunity 2016, doi:10.1016/j.jimmuni.2016.01.021 影响因子：19.734
30. Glutaminolysis and Fumarate Accumulation Integrate Immunometab-

bolic and Epigenetic Programs in Trained Immunity. *Cell Metab* 2016, doi:10.1016/j.cmet.2016.10.008 影响因子：18.164

31. Leptin, BMI, and a Metabolic Gene Expression Signature Associated with Clinical Outcome to VEGF Inhibition in Colorectal Cancer. *Cell Metab* 2016, doi:10.1016/j.cmet.2015.10.015 影响因子：18.164
32. Analysis of Tumor Metabolism Reveals Mitochondrial Glucose Oxidation in Genetically Diverse Human Glioblastomas in the Mouse Brain In Vivo. *Cell Metab* 2012, DOI 10.1016/j.cmet.2012.05.001 影响因子：18.164
33. The Histone H3 Methyltransferase G9A Epigenetically Activates the Serine-Glycine Synthesis Pathway to Sustain Cancer Cell Survival and Proliferation. *Cell Metab* 2013, doi:10.1016/j.cmet.2013.11.004 影响因子：18.164
34. Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. *Cell Metab* 2017, doi:10.1016/j.cmet.2017.05.003 影响因子：18.164
35. Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. *Nat Chem Biol* 2012, doi: 10.1038/nchembio.1060 影响因子：15.066
36. Antibiotic-Induced Changes to the Host Metabolic Environment Inhibit Drug Efficacy and Alter Immune Function. *Cell Host Microbe* 2017, doi:10.1016/j.chom.2017.10.020 影响因子：14.946
37. The E3 Ligase Parkin Maintains Mitochondrial Integrity by Increasing Linear Ubiquitination of NEMO. *Mol Cell* 2013, doi:10.1016/j.molcel.2013.01.036 影响因子：14.714
38. PARK2 Depletion Connects Energy and Oxidative Stress to PI3K/Akt Activation via PTEN SNitrosylation. *Mol Cell* 2017, doi:10.1016/j.molcel.2017.02.019 影响因子：14.714
39. A large-scale, multi-center serum metabolite biomarkers identification study for the early detection of hepatocellular carcinoma. *HEPATOLOGY* 2017, doi: 10.1002/hep.29561 影响因子：14.079

40. Untargeted metabolomics identifies trimethyllysine, a TMAO-producing nutrient precursor, as a predictor of incident cardiovascular disease risk. *JCI Insight* 2018, doi:10.1172/jci.insight.99096 影响因子：13.251
41. 2-Aminoadipic acid is a biomarker for diabetes risk. *J Clin Invest* 2013, doi:10.1172/JCI64801 影响因子：13.251
42. Blood metabolite markers of preclinical Alzheimer's disease in two longitudinally followed cohorts of older individuals. *Alzheimers Dement* 2016, doi:10.1016/j.jalz.2015.12.008. 影响因子：12.74
43. A positive/negative ion-switching, targeted mass spectrometry-based metabolomics platform for bodily fluids, cells, and fresh and fixed tissue. *Nature protocol* 2012, doi:10.1038/nprot.2012.024 影响因子：12.423
44. Genome-wide association study and targeted metabolomics identifies sex-specific association of CPS1 with coronary artery disease. *Nat Commun* 2016, DOI: 10.1038/ncomms10558 影响因子：12.124
45. An exome array study of the plasma metabolome. *Nat Commun* 2016, DOI: 10.1038/ncomms12360 影响因子：12.124
46. Distinct metabolomic signatures are associated with longevity in humans. *Nat Commun* 2015, DOI: 10.1038/ncomms7791 影响因子：12.124
47. Glutamine deprivation stimulates mTOR-JNK-dependent chemokine secretion. *Nat Commun* 2014, <https://www.nature.com/articles/ncomms5900.pdf> 影响因子：12.124
48. Analyses of gut microbiota and plasma bile acids enable stratification of patients for antidiabetic treatment. *Nat Commun* 2017, DOI: 10.1038/s41467-017-01682-2 影响因子：12.124
49. Diet and specific microbial exposure trigger features of environmental enteropathy in a novel murine model. *Nat Commun* 2015, DOI: 10.1038/ncomms8806 影响因子：12.124

50. Genetic regulation of mouse liver metabolite levels. Mol Syst Biol 2014, DOI 10.15252/msb.20135004 影响因子：10.581
51. Methionine metabolism is essential for SIRT1-regulated mouse embryonic stem cell maintenance and embryonic development. EMBO J 2017, DOI: 10.15252/embj.201796708 影响因子：10.557
52. Hominoid-specific enzyme GLUD2 promotes growth of IDH1R132H glioma. PNAS 2014, doi:10.1073/pnas.1409653111 影响因子：9.661
53. Phosphoinositide 3-kinase inhibitors induce DNA damage through nucleoside depletion. PNAS 2016, doi:10.1073/pnas.1522223113 影响因子：9.661
54. Maresin conjugates in tissue regeneration biosynthesis enzymes in human macrophages. PNAS 2016, doi:10.1073/pnas.1607003113 影响因子：9.661
55. Mutations in mitochondrial enzyme GPT2 cause metabolic dysfunction and neurological disease with developmental and progressive features. PNAS 2016, doi:10.1073/pnas.1609221113 影响因子：9.661
56. Metabolite profiling stratifies pancreatic ductal adenocarcinomas into subtypes with distinct sensitivities to metabolic inhibitors. PNAS 2015, doi:10.1073/pnas.1501605112 影响因子：9.661
57. Identification of a small molecule inhibitor of 3-phosphoglycerate dehydrogenase to target serine biosynthesis in cancers. PNAS 2016, doi:10.1073/pnas.1521548113 影响因子：9.661
58. Letm1, the mitochondrial $\text{Ca}^{2+}/\text{H}^+$ antiporter, is essential for normal glucose metabolism and alters brain function in Wolf–Hirschhorn syndrome. PNAS 2013, doi:10.1073/pnas.1308558110 影响因子：9.661
59. High-fat diet and FGF21 cooperatively promote aerobic thermogenesis in mtDNA mutator mice. PNAS 2015, doi:10.1073/pnas.1509930112 影响因子：9.661

60. Tissue-specific down-regulation of S-adenosyl-homocysteine via suppression of dAhcyL1/dAhcyL2 extends health span and life span in Drosophila. GENES DEVELOP 2016, doi:10.1101/gad.282277.116. 影响因子：9.462
61. Accumulation of 2-hydroxyglutarate is not a biomarker for malignant progression in IDH-mutated low-grade gliomas. Neuro-Oncology 2013, doi:10.1093/neuonc/not006 影响因子：9.384
62. Metabolic signature identifies novel targets for drug resistance in Multiple Myeloma. cancer res 2015, DOI: 10.1158/0008-5472 影响因子：9.13
63. Metabolic vulnerabilities in endometrial cancer. cancer res 2014, DOI: 10.1158/0008-5472.CAN-14-0254 影响因子：9.13
64. Multi-platform characterization of the human cerebrospinal fluid metabolome: a comprehensive and quantitative update. Genome Med 2012, doi: 10.1186/gm337 影响因子：8.898
65. A Combined Epidemiologic and Metabolomic Approach Improves CKD Prediction. J Am Soc Nephrol 2013, doi: 10.1681/ASN.2012101006 影响因子：8.655
66. Reproducibility of Metabolomic Profiles among Men and Women in 2 Large Cohort Studies. Clin Chem 2013, doi:10.1373/clinchem.2012.199133 影响因子：8.636
67. Low-dose radiation exposure induces a HIF-1-mediated adaptive and protective metabolic response. Cell Death Differ 2014, doi:10.1038/cdd.2014.24 影响因子：8.339
68. The TMAO-Generating Enzyme Flavin Monooxygenase 3 Is a Central Regulator of Cholesterol Balance. Cell Reports 2015, doi:10.1016/j.celrep.2014.12.036 影响因子：8.282
69. Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. Cell Reports 2014, doi:10.1016/j.celrep.2014.04.037 影响因子：8.282

70. Mitochondrial dysfunction remodels one-carbon metabolism in human cells. *eLife* 2016, DOI: 10.7554/eLife.10575.001 影响因子：7.616
71. KEAP1 loss modulates sensitivity to kinase targeted therapy in lung cancer. *eLife* 2017, DOI: 10.7554/eLife.18970 影响因子：7.616
72. Early Metabolic Markers of the Development of Dysglycemia and Type 2 Diabetes and Their Physiological Significance. *DIABETES* 2013, DOI: 10.2337/db12-0707 影响因子：7.273
73. Selective Mitochondrial Targeting Exerts Anxiolytic Effects In Vivo Neuropsychopharmacology 2015, doi: 10.1038/npp.2015.341. 影响因子：7.048
74. Altered proteome turnover and remodeling by short-term caloric restriction or rapamycin rejuvenate the aging heart. *Aging cell* 2014, Doi: 10.1111/acel.12203 影响因子：6.714
75. Atxn2-Knock-Out mice show branched chain amino acids and fatty acids pathway alterations. *Mol Cell Proteomics* 2016, M115.056770 影响因子：6.54
76. Urinary Metabolomics for Noninvasive Detection of Borderline and Acute T Cell–Mediated Rejection in Children After Kidney Transplantation. *AM J TRANSPLANT* 2014, doi: 10.1111/ajt.12837 影响因子：6.493
77. Ion-pair selection method for pseudotargeted metabolomics based on SWATH MS acquisition and its application in differential metabolite discovery of Type 2 diabetes. *Anal Chem* 2018, DOI: 10.1021/acs.analchem.8b02377 影响因子：6.32
78. Combining NMR and LC/MS Using Backward Variable Elimination: Metabolomics Analysis of Colorectal Cancer, Polyps, and Healthy Controls. *Anal Chem* 2016, doi: 10.1021/acs.analchem.6b00885. 影响因子：6.32
79. Metabolite profiling in plasma and tissues of ob/ob and db/db mice identifies novel markers of obesity and type 2 diabetes. *Diabetologia* 2015, DOI 10.1007/s00125-015-3656-y 影响因子：6.08

80. Deletion of mouse Alkbh7 leads to obesity. *J Mol Cell Biol* 2013, doi:10.1093/jmcb/mjt012 影响因子：5.988
81. Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP. *Cell Death Dis* 2014, doi:10.1038/cddis.2014.166 影响因子：5.965
82. Glucose metabolism is inhibited by caspases upon the induction of apoptosis. *Cell Death Dis* 2014, doi:10.1038/cddis.2014.371 影响因子：5.965
83. NAMPT inhibition sensitizes pancreatic adenocarcinoma cells to tumor-selective, PAR-independent metabolic catastrophe and cell death induced by β -lapachone. *Cell Death Dis* 2015, doi:10.1038/cddis.2014.564 影响因子：5.965
84. Decreased vitamin B12 availability induces ER stress through impaired SIRT1-deacetylation of HSF1. *Cell Death Dis* 2013, doi:10.1038/cddis.2013.69 影响因子：5.965
85. Effect of Dietary Sodium Restriction on Human Urinary Metabolomic Profiles. *Clin J Am Soc Nephrol* 2015, doi: 10.2215/CJN.11531114 影响因子：5.835
86. The dynamic range of the human metabolome revealed by challenges. *FASEB J* 2012, doi: 10.1096/fj.11-198093 影响因子：5.595
87. Fetal Deficiency of Lin28 Programs Life-Long Aberrations in Growth and Glucose. *Metabolism Stem Cells* 2013, doi: 10.1002/stem.1423 影响因子：5.587
88. Metabolomics of Human Cerebrospinal Fluid Identifies Signatures of Malignant Glioma. *Mol Cell Proteomics* 2012, doi:10.1074/mcp.M111.014688-1 影响因子：5.232
89. Global and Targeted Metabolomics of Esophageal Squamous Cell Carcinoma Discovers Potential Diagnostic and Therapeutic Biomarkers. *Mol Cell Proteomics* 2013, DOI 10.1074/mcp.M112.022830 影响因子：5.232

90. MUC16-mediated activation of mTOR and c-MYC reprograms pancreatic cancer metabolism. *Oncotarget* 2015, Vol. 6, No. 22, 19118 影响因子：5.168
91. Metabolomics profiling in plasma samples from glioma patients correlates with tumor phenotypes. *Oncotarget* 2016, Vol. 7, No. 15, 20486 影响因子：5.168
92. Adaptive changes in amino acid metabolism permit normal longevity in mice consuming a low-carbohydrate ketogenic diet. *Biochim Biophys Acta* 2015, doi:10.1016/j.bbadi.2015.07.009 影响因子：5.018
93. Reversal of autism-like behaviors and metabolism in adult mice with single-dose antipurinergic therapy. *Transl Psychiatry* 2014, doi:10.1038/tp.2014.33 影响因子：4.73
94. Diagnosis of major depressive disorder based on changes in multiple plasma neurotransmitters: a targeted metabolomics study. *Transl Psychiatry* 2018, DOI 10.1038/s41398-018-0183-x 影响因子：4.691
95. Autophagy-Dependent Metabolic Reprogramming Sensitizes TSC2-Deficient Cells to the Antimetabolite 6-Aminonicotinamide. *Mol Cancer Res* 2013, DOI: 10.1158/1541-7786 影响因子：4.597
96. High-Throughput Drug Screen Identifies Chelerythrine as a Selective Inducer of Death in a TSC2-null Setting. *Mol Cancer Res* 2014, DOI: 10.1158/1541-7786 影响因子：4.597
97. Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. *J Biol Chem* 2016, DOI 10.1074/jbc.M115.698985 影响因子：4.539
98. Homocysteine Activates B Cells via Regulating PKM2-Dependent Metabolic Reprogramming. *J Immunol* 2016 doi:10.4049/jimmunol.1600613 影响因子：4.539
99. Palmitate-activated astrocytes via SPT increase BACE1 in primary neu-

- rons by Smases. *Neurobiol Aging* 2013, doi: 10.1016/j.neurobiolaging.2012.05.017. 影响因子：4.454
100. Metabolic Signature of Remote Ischemic Preconditioning Involving a Cocktail of Amino Acids and Biogenic Amines. *J Am Heart Assoc* 2016 doi: 10.1161/JAHA.116.003891 影响因子：4.45
101. A Targeted Metabolomics MRM-MS Study on Identifying Potential Hypertension Biomarkers in Human Plasma and Evaluating Acupuncture Effects. *Sci Rep* 2016, DOI: 10.1038/srep25871 影响因子：4.122
102. Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. *J Biol Chem* 2017, DOI 10.1074/jbc.M117.788422 影响因子：4.01
103. A Role for Mitochondrial Phosphoenolpyruvate Carboxykinase (PEP-CK-M) in the Regulation of Hepatic Gluconeogenesis. *J Biol Chem* 2014, doi:10.1074/jbc.C113.544759 影响因子：4.01
104. A Hypoxia-Induced Positive Feedback Loop Promotes Hypoxia-Inducible Factor 1 Stability through miR-210 Suppression of Glycerol-3-Phosphate Dehydrogenase 1-Like. *MOL CELL BIOL* 2011, doi:10.1128/MCB.01242-10 影响因子：3.813
105. Characterization and application of a disease-cell model for a neurodegenerative lysosomal disease. *Mol Genet Metab* 2014, doi:10.1016/j.ymgme.2013.09.011 影响因子：3.774
106. Metabolic consequences of mitochondrial coenzyme A deficiency in patients with PANK2 mutations. *Mol Genet Metab* 2012, doi:10.1016/j.ymgme.2011.12.005. 影响因子：3.774
107. Bioenergetic cues shift FXR splicing towards FXRa2 to modulate hepatic lipolysis and fatty acid metabolism. *MOL METAB* 2015, doi:10.1016/j.molmet.2015.09.005 影响因子：3.774
108. Targeted metabolomic analysis of plasma samples for the diagnosis of

- inherited metabolic disorders. *J Chromatogr A* 2012, doi:10.1016/j.chroma.2011.09.074 影响因子：3.71
109. Stimulated Nitric Oxide Production and Arginine Deficiency in Cystic Fibrosis Children with Nutritional Failure. *J Pediatr* 2013, doi:10.1016/j.jpeds.2013.01.005 影响因子：3.667
110. Metabolomic signature of arterial stiffness in male patients with peripheral arterial disease. *Hypertension Res* 2015, doi.org/10.1038/hr.2015.71 影响因子：3.581
111. Integration of targeted metabolomics and transcriptomics identifies deregulation of phosphatidylcholine metabolism in Huntington’s disease peripheral blood samples. *Metabolomics* 2016, DOI 10.1007/s11306-016-1084-8 影响因子：3.511
112. Complete Metabolome and Lipidome Analysis Reveals Novel Biomarkers in the Human Diabetic Corneal Stroma. *Exp Eye Res* 2016, doi:10.1016/j.exer.2016.10.010 影响因子：3.152

二、中药靶向代谢组学

1. Integrated work-flow for quantitative metabolome profiling of plants, Peucedani Radix as a case. *Anal Chimi Acta* 2016, 10.1016/j.aca.2016.11.066 影响因子：5.123
2. Arachidonic acid metabonomics study for understanding therapeutic mechanism of Huo Luo Xiao Ling Dan on rat model of rheumatoid arthritis. *J Ethnopharmacol* 2018, doi:10.1016/j.jep.2018.02.027 影响因子：3.115
3. GC-MS Metabolomic Analysis to the Metabolites and Biological Pathways Involved in the Developmental and Tissue Response of Panax ginseng. *Molecules* 2017, doi:10.3390/molecules22030496 影响因子：3.098
4. Quality Evaluation of Apocyni Veneti Folium from Different Habitats and

Commercial Herbs Based on Simultaneous Determination of Multiple Bioactive Constituents Combined with Multivariate Statistical Analysis. Molecules 2018, doi:10.3390/molecules23030573 影响因子：3.098

5. Comparison of Multiple Bioactive Constituents in Different Parts of Eucommia ulmoides Based on UFLC-QTRAP-MS/MS Combined with PCA. Molecules 2018, doi:10.3390/molecules23030643 影响因子：3.098
6. Analysis of Metabolite Accumulation Related to Pod Color Variation of Caragana intermedia. Molecules 2019, doi:10.3390/molecules24040717 影响因子：3.098

三、食品靶向代谢组学

1. Liquid chromatography–mass spectrometry-based metabolomics for authenticity assessment of fruit juices. Metabolomics 2011, DOI: 10.1007/s11306-011-0371-7 影响因子：3.511
2. Rapid detection of economic adulterants in fresh milk by liquid chromatography– tandem mass spectrometry. J Chromatogr A 2013, doi: 10.1016/j.chroma.2013.02.022 影响因子：3.71
3. Effect of peeling and three cooking methods on the content of selected phytochemicals in potato tubers with various colour of flesh. Food Chem 2013, doi:10.1016/j.foodchem.2012.11.114 影响因子：4.946
4. Urinary N-methylpyridinium and trigonelline as candidate dietary biomarkers of coffee consumption. Mol Nutr Food Res 2011, DOI 10.1002/mnfr.201000656 影响因子：5.151
5. Stability of the Phenolic and Carotenoid Profile of Gazpachos during Storage. J Agric Food Chem 2012, doi:10.1021/jf204142j 影响因子：3.412
6. Effect of peeling and three cooking methods on the content of selected phytochemicals in potato tubers with various colour of flesh. Food Chem

2013, doi:10.1016/j.foodchem.2012.11.114 影响因子: 4.946

7. Phenolic compounds and methylglyoxal in some New Zealand manuka and kanuka honeys. *Food Chem* 2010, doi:10.1016/j.foodchem.2009.09.074
影响因子: 4.946
8. Studies on structures and activities of initial Maillard reaction products by electrospray ionisation mass spectrometry combined with liquid chromatography in processing of red ginseng. *Food Chem* 2012, doi:10.1016/j.foodchem.2012.04.126 影响因子: 4.946
9. Changes in phenolic profile and antioxidant activity during production of diced tomatoes. *Food Chem* 2011, doi:10.1016/j.foodchem.2010.12.061
影响因子: 4.946
10. Influence of ultra-high pressure homogenisation on antioxidant capacity, polyphenol and vitamin content of clear apple juice. *Food Chem* 2011, doi:10.1016/j.foodchem.2010.12.152 影响因子: 4.946
11. Is there any difference between the phenolic content of organic and conventional tomato juices? *Food Chem* 2011, doi:10.1016/j.foodchem.2011.07.017 影响因子: 4.946
12. Gut and microbial resveratrol metabolite profiling after moderate long-term consumption of red wine versus dealcoholized red wine in humans by an optimized ultra-high-pressure liquid chromatography tandem mass spectrometry method. *J Chromatogr A* 2012, doi:10.1016/j.chroma.2012.09.093 影响因子: 3.71
13. Rapid detection of economic adulterants in fresh milk by liquid chromatography– tandem mass spectrometry. *J Chromatogr A* 2013, doi:10.1016/j.chroma.2013.02.022 影响因子: 3.71
14. Changes in the Polyphenol Profile of Tomato Juices Processed by Pulsed Electric Fields. *J Agric Food Chem* 2012, doi:10.1021/jf302791k 影响因子: 3.412

15. Microbial Metabolomic Fingerprinting in Urine after Regular Dealcoholized Red Wine Consumption in Humans. *J Agric Food Chem* 2013, doi:10.1021/jf402394c 影响因子: 3.412
16. Evaluation of a Method To Characterize the Phenolic Profile of Organic and Conventional Tomatoes. *J Agric Food Chem* 2012, doi:10.1021/jf204702f 影响因子: 3.412
17. Polyphenol Metabolite Profile of Artichoke Is Modulated by Agronomical Practices and Cooking Method. *J Agric Food Chem* 2013, doi:10.1021/jf401468s 影响因子: 3.412
18. Urolithins Are the Main Urinary Microbial-Derived Phenolic Metabolites Discriminating a Moderate Consumption of Nuts in Free- Living Subjects with Diagnosed Metabolic Syndrome. *J Agric Food Chem* 2012, doi: 10.1021/jf301509w 影响因子:3.412
19. Determination of wheat, rye and spelt authenticity in bread by targeted peptide biomarkers. *J Food Compos Anal* 2017, doi:10.1016/j.jfca.2017.01.019 影响因子: 2.956
20. Rapid LC–MS-based metabolomics method to study the Fusarium infection of barley. *J Sep Sci* 2014, DOI 10.1002/jssc.201301292 影响因子: 2.415
21. Rapid screening for detection and differentiation of detergent powder adulteration in infant milk formula by LC–MS. *Forensic Sci Int* 2013, doi:10.1016/j.forsciint.2013.06.013 影响因子: 1.97
22. Influence of Different Hop Products on the cis/trans Ratio of Iso- α -Acids in Beer and Changes in Key Aroma and Bitter Taste Molecules During Beer Ageing. *J ASBC* 2014, doi:10.1094/ASBCJ-2014-0326-01 影响因子: 0.886

四、植物靶向代谢组学

1. Rewiring of the Fruit Metabolome in Tomato Breeding. *Cell* 2018,

doi:10.1016/j.cell.2017.12.019 影响因子：30.41

2. Genome-wide association analyses provide genetic and biochemical insights into natural variation in rice metabolism. *Nat Genet* 2014, doi:10.1038/ng.3007 影响因子：29.35
3. Metabolome-based genome-wide association study of maize kernel leads to novel biochemical insights. *Nat Commun* 2014, DOI: 10.1038/ncomms4438 影响因子：12.124
4. Comparative and parallel genome-wide association studies for metabolic and agronomic traits in cereals. *Nat Commun* 2016, DOI: 10.1038/ncomms12767 影响因子：12.124
5. Genetic analysis of the metabolome exemplified using a rice population. *PNAS* 2013, doi:10.1073/pnas.1319681110 影响因子：9.661
6. Functions of maize genes encoding pyruvate phosphate dikinase in developing endosperm. *PNAS* 2017, doi:10.1073/pnas.1715668115 PNAS 影响因子：9.661
7. Isotopically nonstationary ^{13}C flux analysis of changes in *Arabidopsis thaliana* leaf metabolism due to high light acclimation. *PNAS* 2014, doi:10.1073/pnas.1319485111 影响因子：9.661
8. Evolutionarily Distinct BAHD N-Acyltransferases Are Responsible for Natural Variation of Aromatic Amine Conjugates in Rice. *Plant Cell* 2016, doi:10.1105/tpc.16.00265 影响因子：9.34
9. Abscisic Acid–Responsive Guard Cell Metabolomes of *Arabidopsis* Wild-Type and *gpa1* G-Protein Mutants. *Plant Cell* 2013, doi:10.1105/tpc.113.119800 影响因子：9.34
10. A Novel Integrated Method for Large-Scale Detection, Identification, and Quantification of Widely Targeted Metabolites: Application in the Study of Rice Metabolomics. *Mol plant* 2013, doi:10.1093/mp/sst080 影响因子：9.326

11. Spatiotemporal Distribution of Phenolamides and the Genetics of Natural Variation of Hydroxycinnamoyl Spermidine in Rice. *Mol plant* 2014, doi:10.1016/j.molp.2014.11.003 影响因子：9.326
12. Control of Leaf Senescence by an MeOH Jasmonates Cascade that Is Epigenetically Regulated by OsSRT1 in Rice. *Mol plant* 2016, doi:10.1016/j.molp.2016.07.007 影响因子：9.326
13. A Novel Integrated Method for Large-Scale Detection, Identification, and Quantification of Widely Targeted Metabolites: Application in the Study of Rice Metabolomics. *Mol plant* 2013, doi:10.1093/mp/sst080 影响因子：9.326
14. Spatiotemporal Distribution of Phenolamides and the Genetics of Natural Variation of Hydroxycinnamoyl Spermidine in Rice. *Mol plant* 2015, doi:10.1016/j.molp.2014.11.003 影响因子：9.326
15. Mapping photoautotrophic metabolism with isotopically nonstationary ^{13}C flux analysis. *Metab Eng* 2011, doi:10.1016/j.ymben.2011.08.002 影响因子：7.674
16. CHANGES IN WHOLE-PLANT METABOLISM DURING GRAIN-FILLING STAGE IN SORGHUM BICOLOR L. (MOENCH) GROWN UNDER ELEVATED CO₂ AND DROUGHT. *Plant Physiol* 2015, DOI:10.1104/pp.15.01054 影响因子：5.949
17. CYP93G1 is a flavone synthase II which channels flavanones to the biosynthesis of tricin O-linked conjugates in rice. *Plant Physiol* 2014, DOI:10.1104/pp.114.239723 影响因子：5.949
18. Metabolic profiling reveals coordinated switches in primary carbohydrate metabolism in grape berry (*Vitis vinifera* L.), a non-climacteric fleshy fruit. *J Exp Botany* 2013, doi:10.1093/jxb/ers396 影响因子：5.354
19. Increased fructose 1,6-bisphosphate aldolase in plastids enhances growth and photosynthesis of tobacco plants. *J Exp Botany* 2012, doi:10.1093/jxb/er

- ers004 影响因子：5.354
- 20. Highlighting the tricarboxylic acid cycle: Liquid and gas chromatography-mass spectrometry analyses of ¹³C-labeled organic acids. *Anal Biochem* 2013, doi:10.1016/j.ab.2013.01.027 影响因子：5.12
 - 21. Targeted Metabolomics of *Physaria fendleri*, an Industrial Crop Producing Hydroxy Fatty Acids. *Plant Cell Physiol* 2014, doi:10.1093/pcp/pcu011 影响因子：4.76
 - 22. Rerouting of Carbon Flux in a Glycogen Mutant of Cyanobacteria Assessed via Isotopically Non-Stationary ¹³C Metabolic Flux Analysis. *Biotechnol Bioeng* 2017, DOI: 10.1002/bit.26350 影响因子：4.481
 - 23. A ¹³C isotope labeling method for the measurement of lignin metabolic flux in *Arabidopsis* stems. *Plant Methods* 2018, doi:10.1186/s13007-018-0318-3 影响因子：4.269
 - 24. Novel Quantitative Metabolomic Approach for the Study of Stress Responses of Plant Root Metabolism. *J Proteome Res* 2014, doi:10.1021/pr5007813 影响因子：3.95
 - 25. Global transcriptome analysis of AtPAP2 -overexpressing *Arabidopsis thaliana* with elevated ATP. *BMC Genomics* 2013, doi:10.1186/1471-2164-14-752 影响因子：3.73
 - 26. Regulation of Fig (*Ficus carica L.*) Fruit Color: Metabolomic and Transcriptomic Analyses of the Flavonoid Biosynthetic Pathway. *Front Plant Sci* 2017, doi: 10.3389/fpls.2017.01990 影响因子：3.678
 - 27. Light-dependent activation of phosphoenolpyruvate carboxylase by reversible phosphorylation in cluster roots of white lupin plants: diurnal control in response to photosynthate supply. *Annals Botany* 2016, doi:10.1093/aob/mcw040 影响因子：3.646
 - 28. Comprehensive profiling and natural variation of flavonoids in rice. *J Integr Plant Biol* 2014 doi: 10.1111/jipb.12204 影响因子：3.129

29. Malate transported from chloroplast to mitochondrion triggers production of ROS and PCD in *Arabidopsis thaliana*. *Cell Res* 2018, doi:10.1038/s41422-018-0024-81 影响因子：5.606
30. Quantitative analysis of major plant hormones in crude plant extracts by high-performance liquid chromatography–mass spectrometry. *Nature protocol* 2010, doi:10.1038/nprot.2010.37 影响因子：12.423
31. *Arabidopsis WRKY46, WRKY54, and WRKY70 Transcription Factors Are Involved in Brassinosteroid-Regulated Plant Growth and Drought Responses.* *Plant Cell* 2017, DOI: 10.1105/tpc.17.00364 影响因子：9.34
32. TRAF-Family Proteins Regulate Autophagy Dynamics by Modulating AUTOPHAGY PROTEIN6 Stability in *Arabidopsis*. *Plant Cell* 2017, doi:10.1105/tpc.17.00056 影响因子：9.34
33. Histological and endogenous plant growth regulators changes associated with adventitious shoot regeneration from in vitro leaf explants of strawberry (*Fragaria × ananassa* cv. ‘Honeoye’). *Plant Cell* 2015, DOI: 10.1007/s11240-015-0851-y 影响因子：9.34
34. *MdWRKY9 overexpression confers intensive dwarfing in the M26 rootstock of apple by directly inhibiting brassinosteroid synthetase MdDWF4 expression.* *New Phytologist* 2017, doi: 10.1111/nph.14891 影响因子：7.433.
35. *UNBRANCHED3 regulates branching by modulating cytokinin biosynthesis and signaling in maize and rice.* *New Phytologist* 2017, doi: 10.1111/nph.14891 影响因子：7.433
36. Barley grains, deficient in cytosolic small subunit of ADP-glucose pyrophosphorylase, reveal coordinate adjustment of C:N metabolism mediated by an overlapping metabolic-hormonal control. *Plant J* 2012,doi: 10.1111/j.1365-313X.2011.04857.x 影响因子：5.775
37. The activation of OsEIL1 on YUC8 transcription and auxin biosynthesis is required for ethylene-inhibited root elongation in rice early seedling development. *PLOS*

Genetics 2017, doi:10.1371/journal.pgen.1006955 影响因子：5.54

38. Up-regulating the abscisic acid inactivation gene ZmABA8ox1b contributes to seed germination heterosis by promoting cell expansion. *J Exp Botany* 2016, doi:10.1093/jxb/erw131 影响因子：5.354
39. Abscisic acid stimulates anthocyanin accumulation in ‘Jersey’ highbush blueberry fruits during ripening. *Food Chem* 2018, doi:10.1016/j.food-chem.2017.10.051 影响因子：4.946
40. Live Single-Cell Plant Hormone Analysis by Video-Mass Spectrometry. *Plant Cell Physiol* 2015, doi:10.1093/pcp/pcv042 影响因子：4.76
41. A selective pretreatment method for determination of endogenous active brassinosteroids in plant tissues: double layered solid phase extraction combined with boronate affinity polymer monolith microextraction. *Plant Methods* 2013, doi:10.1186/1746-4811-9-13 影响因子：4.269
42. A rapid approach to investigate spatiotemporal distribution of phytohormones in rice. *Plant Methods* 2016, DOI 10.1186/s13007-016-0147-1 影响因子：4.269
43. An UPLC-MS/MS method for highly sensitive high-throughput analysis of phytohormones in plant tissues. *Plant Methods* 2012, doi:10.1186/1746-4811-8-47 影响因子：4.269
44. P-HYDROXYPHENYL PYRUVATE DIOXYGENASE from *Medicago sativa* is involved in vitamin E biosynthesis and abscisic acidmediated seed germination. *Sci Rep* 2017DOI: 10.1038/srep406251 影响因子：4.122
45. Exogenous jasmonic acid induces stress tolerance in tobacco(*Nicotiana tabacum*) exposed to imazapic. *Ecotoxicol Environ Saf* 2016, doi:10.1016/j.ecoenv.2015.11.026 影响因子：3.974
46. An in-advance stable isotope labeling strategy for relative analysis of multiple acidic plant hormones in sub-milligram *Arabidopsis thaliana* seedling and a single seed. *J Chromatogr A* 2014, doi:10.1016/j.chro-

ma.2014.02.056 影响因子：3.71

47. Using pollen grains as novel hydrophilic solid-phase extractionsorbents for the simultaneous determination of 16 plantgrowth regulators. *J Chromatogr A* 2014, doi:10.1016/j.chroma.2014.09.071 影响因子：3.71
48. Profiling of phytohormones in rice under elevated cadmium concentration levels by magnetic solid-phase extraction coupled with liquid chromatography tandem mass Spectrometry. *J Chromatogr A* 2015, doi:10.1016/j.chroma.2015.06.046 影响因子：3.71
49. Simultaneous analysis of apolar phytohormones and 1-aminocyclopropan-1-carboxylic acid by high performance liquid chromatography/electrospray negative ion tandem mass spectrometry via 9-fluorenylmethoxycarbonyl chloride derivatization. *J Chromatogr A* 2014, doi:10.1016/j.chroma.2014.08.029 影响因子：3.71
50. Impacts of strigolactone on shoot branching under phosphate starvation in chrysanthemum(*Dendranthema grandiflorum* cv. Jinba). *Front Plant Sci* 2015, doi: 10.3389/fpls.2015.00694 影响因子：3.678
51. Phytohormone and Putative Defense Gene Expression Differentiates the Response of ‘Hayward’ Kiwifruit to Psa and Pfm Infections. *Front Plant Sci* 2017, doi: 10.3389/fpls.2017.01366 影响因子：3.678
52. Bioactive Cytokinins Are Selectively Secreted by *Sinorhizobium meliloti* Nodulating and Nonnodulating Strains. *MPMI* 2013, doi:10.1094/MPMI-02-13-0054-R. 影响因子：3.588
53. Role of hydraulic and chemical signals in leaves, stems and roots in the stomatal behaviour of olive trees under water stress and recovery conditions. *Tree Physiology* 2014, doi:10.1093/treephys/tpu055 影响因子：3.389
54. Pursuing extreme sensitivity for determination of endogenous brassinosteroids through direct fishing from plant matrices and eliminating most interferences with boronate affinity magnetic nanoparticles. *Anal Bioanal Chem*

2018, doi:10.1007/s00216-017-0777-9 影响因子：3.2

55. Dynamic phytohormone profiling of rice upon rice black-streaked dwarf virus invasion. *J Plant Physiol* 2018, doi:10.1016/j.jplph.2018.06.001 影响因子：2.97
56. CHR729 Is a CHD3 Protein That Controls Seedling Development in Rice. *PLoS one* 2015, doi:10.1371/journal.pone.0138934 影响因子：2.766
57. Plant Hormone Salicylic Acid Produced by a Malaria Parasite Controls Host Immunity and Cerebral Malaria Outcome. *PLoS one* 2015, DOI:10.1371/journal.pone.0140559 影响因子：2.766

五、环境靶向代谢组学（环境毒理）

1. Monoethylhexyl Phthalate Elicits an Inflammatory Response in Adipocytes Characterized by Alterations in Lipid and Cytokine Pathways. *Environ Health Perspec* 2017, doi:10.1289/EHP464. 影响因子：8.309
2. Phosphorus-Containing Fluorinated Organics: Polyfluoroalkyl Phosphoric Acid Diesters (diPAPs), Perfluorophosphonates (PFPAs), and Perfluorophosphinates (PFPIAs) in Residential Indoor Dust. *Environ Sci Technol* 2012, doi:10.1021/es303172p 影响因子：6.198
3. Benzotriazole (BT) and BT Plant Metabolites in Crops Irrigated with Recycled Water. *Environ Sci Water Res Tech* 2017, DOI:10.1039/C6EW00270F. 影响因子：6.198
4. New Insights into the Cytotoxic Mechanism of Hexabromocyclododecane (HBCD) from a Metabolomic Approach. *Environ Sci Technol* 2016 DOI:10.1021/acs.est.5b03678 影响因子：6.198
5. Concentrations of phthalate metabolites in breast milk in Korea: Estimating exposure to phthalates and potential risks among breast-fed infants. *Sci Total Environ* 2015, doi:10.1016/j.scitotenv.2014.11.019 影响因子：4.61

6. In vivo metabolism of organophosphate flame retardants and distribution of their main metabolites in adult zebrafish. *Sci Total Environ* 2017, doi:10.1016/j.scitotenv.2017.03.038 影响因子：4.61
7. Chiral PCB 91 and 149 Toxicity Testing in Embryo and Larvae (*Danio rerio*): Application of Targeted Metabolomics via UPLC-MS/MS. *Sci Rep* 2016. DOI: 10.1038/srep33481 影响因子：4.122
8. Effects of Perfluorooctanoic Acid on Metabolic Profiles in Brain and Liver of Mouse Revealed by a Hightthroughput Targeted Metabolomics Approach. *SCI Rep* 2016, DOI: 10.1038/srep23963 影响因子：4.122
9. Effects of benzophenone-3 on the green alga *Chlamydomonas reinhardtii* and the cyanobacterium *Microcystis aeruginosa*. *Aquatic Toxicology* 2017, doi:10.1016/j.aquatox.2017.09.029 影响因子：3.884
10. Relation between dietary acrylamide exposure and biomarkers of internal dose in Canadian teenagers. *J Expos Sci Environm Epidemi* 2014, DOI: 10.1038/jes.2013.34 影响因子：2.927
11. Effects of 4-methylbenzylidene camphor (4-MBC) on neuronal and muscular development in zebrafish (*Danio rerio*) embryos. *Environ Sci Pollut Res* 2016, DOI 10.1007/s11356-016-6180-9 影响因子：2.8
12. Analysis of the Enantioselective Effects of PCB95 in Zebrafish (*Danio rerio*) Embryos through Targeted Metabolomics by UPLC-MS/MS. *PloS one* 2016, DOI:10.1371/journal.pone.0160584 影响因子：2.766
13. Nonylphenol Toxicity Evaluation and Discovery of Biomarkers in Rat Urine by a Metabolomics Strategy through HPLC-QTOF-MS. *Inter J Env Res Pub Heal* 2016, doi:10.3390/ijerph13050501 影响因子：2.145

六、微生物靶向代谢组学（发酵）

1. Non-lethal Inhibition of Gut Microbial Trimethylamine Production for the

Treatment of Atherosclerosis. *Cell* 2015, doi:10.1016/j.cell.2015.11.055 影响因子：30.41

2. Gut Microbial Metabolism Drives Transformation of Msh2-Deficient Colon Epithelial Cells. *Cell* 2014, doi:10.1016/j.cell.2014.04.051 影响因子：30.41
3. Pyruvate Kinase Triggers a Metabolic Feedback Loop that Controls Redox Metabolism in Respiring Cells. *Cell Metab* 2011, DOI 10.1016/j.cmet.2011.06.0171 影响因子：8.164
4. Melamine-Induced Renal Toxicity Is Mediated by the Gut Microbiota. *Sci Transl Med* 2013, DOI: 10.1126/scitranslmed.30051141 影响因子：6.796
5. SF2312 is a natural phosphonate inhibitor of Enolase. *Nat Chem Biol* 2016, doi:10.1038/nchembio.2195. 影响因子：15.066
6. A genomic and evolutionary approach reveals non-genetic drug resistance in malaria. *Genome Biol* 2014, <http://genomebiology.com/2014/15/11/511> 影响因子：13.214
7. Prediction and quantification of bioactive microbiota metabolites in the mouse gut. *Nat Commun* 2014, DOI: 10.1038/ncomms6492 影响因子：12.124
8. Temporal system-level organization of the switch from glycolytic to gluconeogenic operation in yeast. *Mol Syst Biol* 2013, doi:10.1038/msb.2013.11 影响因子：10.581
9. Molecular signatures of plastic phenotypes in two eusocial insect species with simple societies. *PNAS* 2015, doi:10.1073/pnas.1515937112 影响因子：9.661
10. Characterizing Strain Variation in Engineered *E. coli* Using a Multi-Omics-Based Workflow. *Cell Systems* 2016, doi:10.1016/j.cels.2016.04.004 影响因子：8.406

11. Gene Transfer Agent Promotes Evolvability within the Fittest Subpopulation of a Bacterial Pathogen. *Cell Systems* 2017, doi:10.1016/j.cels.2017.05.011
影响因子：8.406
12. Use of pantothenate as a metabolic switch increases the genetic stability of farnesene producing *Saccharomyces cerevisiae*. *Metab Eng* 2014, doi:10.1016/j.ymben.2014.07.006 影响因子：7.674
13. Glycolysis without pyruvate kinase in *Clostridium thermocellum*. *Metab Eng* 2016, doi:10.1016/j.ymben.2016.11.011 影响因子：7.674
14. The Pentose Phosphate Pathway Is a Metabolic Redox Sensor and Regulates Transcription During the Antioxidant Response. *ANTIOXID REDOX SIG* 2011, DOI: 10.1089/ars.2010.3797 影响因子：6.53
15. Pathogenicity of *Mycobacterium tuberculosis* Is Expressed by Regulating Metabolic Thresholds of the Host Macrophage. *PLOS Pathog* 2014, doi:10.1371/journal.ppat.1004265 影响因子：6.158
16. Tolerance and metabolic response of *Pseudomonas taiwanensis* VLB120 towards biomass hydrolysate-derived inhibitors. *Biotechnol Biofuels* 2018, doi:10.1186/s13068-018-1192-y 影响因子：5.497
17. Sampling of intracellular metabolites for stationary and non-stationary ¹³C metabolic flux analysis in *Escherichia coli*. *Anal Biochem* 2014, doi:10.1016/j.ab.2014.07.026 影响因子：5.12
18. Dynamic exometabolome analysis reveals active metabolic pathways in non-replicating mycobacteria. *Environ Microbiol* 2015, doi:10.1111/1462-2920.13056 影响因子：4.974
19. Metabolic engineering of isopropyl alcohol-producing *Escherichia coli* strains with ¹³C-metabolic flux analysis. *Biotechnol Bioeng* 2017, DOI :10.1002/bit.26390 影响因子：4.481
20. Metabolic profile of 1,5-diaminopentane producing *Corynebacterium glutamicum* under scale-down conditions: Blueprint for robustness to bioreac-

tor inhomogeneities. *Biotechnol Bioeng* 2016, DOI 10.1002/bit.26184 影响因子：4.481

21. Improved L-Lysine Production With *Corynebacterium glutamicum* and Systemic Insight Into Citrate Synthase Flux and Activity. *Biotechnol Bioeng* 2012, DOI 10.1002/bit.24486 影响因子：4.481
22. A Model-Driven Quantitative Metabolomics Analysis of Aerobic and Anaerobic Metabolism in *E. coli* K-12 MG1655 That Is Biochemically and Thermodynamically Consistent. *Biotechnol Bioeng* 2014, DOI 10.1002/bit.25133 影响因子：4.481
23. In Vitro Reconstitution of Mevalonate Pathway and Targeted Engineering of Farnesene Overproduction in *Escherichia coli*. *Biotechnol Bioeng* 2014, DOI 10.1002/bit.25198 影响因子：4.481
24. Growth Adaptation of *gnd* and *sdhCB* *Escherichia coli* Deletion Strains Diverges From a Similar Initial Perturbation of the Transcriptome. *Front Microbiol* 2018, doi: 10.3389/fmicb.2018.01793 影响因子：4.019
25. Intestinal Microbiota-Dependent Phosphatidylcholine Metabolites, Diastolic Dysfunction and Adverse Clinical Outcomes in Chronic Systolic Heart Failure. *J Card Fail* 2015, doi:10.1016/j.cardfail.2014.11.006. 影响因子：3.942
26. Systems analysis of methylerythritol-phosphate pathway flux in *E. coli*: insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. *Microb Cell Fact* 2015, DOI 10.1186/s12934-015-0381-7 影响因子：3.831
27. Metabolic engineering of *Clostridium cellulolyticum* for the production of n-butanol from crystalline cellulose. *Microb Cell Fact* 2016, DOI 10.1186/s12934-015-0406-2 影响因子：3.831
28. Chorismate-dependent transcriptional regulation of quinate/shikimate utilization genes by LysR-type transcriptional regulator QsuR in *Corynebac-*

- terium glutamicum: carbon flow control at metabolic branch point. Mol Microbiol 2014, doi:10.1111/mmi.12560 影响因子：3.816
29. The post-transcriptional regulatory system CSR controls the balance of metabolic pools in upper glycolysis of Escherichia coli. Mol Microbiol 2016, doi:10.1111/mmi.13343 影响因子：3.816
 30. A pH and solvent optimized reverse-phase ion-pairing-LC–MS/MS method that leverages multiple scan-types for targeted absolute quantification of intracellular metabolites. Metabolomics 2015, DOI 10.1007/s11306-015-0790-y 影响因子：3.511

七、靶向代谢组学方法学

1. MRM-Ion Pair Finder: a systematic approach to transform nontargeted mode to pseudo-targeted mode for metabolomics study based on liquid chromatography-mass spectrometry. Anal Chem 2015, DOI: 10.1021/acs.analchem.5b00615 影响因子：6.32
2. Development and Evaluation of a Parallel Reaction Monitoring Strategy for Large-Scale Targeted Metabolomics Quantification. Anal Chem 2016, DOI: 10.1021/acs.analchem.6b00355 影响因子：6.32
3. Improved Data-Dependent Acquisition for Untargeted Metabolomics Using Gas-Phase Fractionation with Staggered Mass Range. Anal Chem 2015, DOI: 10.1021/ac504325x 6.32
4. Targeted metabolomics in cultured cells and tissues by mass spectrometry: Method development and validation. Anal Chim Acta 2014, doi:10.1016/j.aca.2014.06.012 影响因子：5.12
5. Increase the accessibility and scale of targeted metabolomics: construction of a human urinary metabolome-wide multiple reaction monitoring library using directly-coupled reversed-phase and hydrophilic interaction chromatography. Anal Chim Acta 2015, doi:10.1016/j.aca.2015.08.056 影响因

子：5.12

6. Novel approach in LC-MS/MS using MRM to generate a full profile of acyl-CoAs: discovery of acyl-dephospho-CoAs. *J Lipid Res* 2013, DOI 10.1194/jlr.D045112 影响因子：4.81
7. Removing the bottlenecks of cell culture metabolomics: fast normalization procedure, correlation of metabolites to cell number, and impact of the cell harvesting method. *Metabolomics* 2016, DOI 10.1007/s11306-016-1104-8 影响因子：3.511

靶向脂质组学

一、疾病靶向脂质组学

1. Infection regulates pro-resolving mediators that lower antibiotic requirements. Nature 2012, doi:10.1038/nature11042 影响因子：40.137
2. Succinate is an inflammatory signal that induces IL-1 β through HIF-1 α . Nature 2013, doi:10.1038/nature11986 影响因子：40.137
3. Nicotinamide N-methyltransferase knockdown protects against diet-induced obesity. Nature 2014, doi:10.1038/nature13198 影响因子：40.137
4. Interactome map uncovers phosphatidylserine transport by oxysterol-binding proteins. Nature 2013, doi:10.1038/nature12430 影响因子：40.137
5. An obligatory role for neuropeptides in high fat diet-induced obesity. Nature 2016, doi:10.1038/nature17662 影响因子：40.137
6. Elucidation of novel 13-series resolvins that increase with atorvastatin and clear infections. Nat Med 2015, doi:10.1038/nm.3911 影响因子：32.621
7. Quantification of PtdInsP3 molecular species in cells and tissues by mass spectrometry. Nat Med 2011, doi:10.1038/nmeth.1564. 影响因子：32.621
8. Omega-3 fatty acid epoxides are autocrine mediators that control the magnitude of IgE-mediated mast cell Activation. Nat Med 2017, doi:10.1038/nm.4417 影响因子：32.621
9. Host Genotype-Specific Therapies Can Optimize the Inflammatory Response to Mycobacterial Infections. Cell 2011, DOI 10.1016/j.cell.2011.12.023 影响因子：30.41
10. Gut microbiota promotes obesity-associated liver cancer through PGE2-mediated suppression of antitumor immunity. cancer discov 2017, DOI:10.1158/2159-8290.CD-16-0932 影响因子：24.374

11. Induced Pluripotent Stem Cell Differentiation Enables Functional Validation of GWAS Variants in Metabolic Disease. *Cell Stem Cell* 2017, doi:10.1016/j.stem.2017.01.010 影响因子：23.394
12. Mast cell maturation is driven via a group III phospholipase A2-prostaglandin D2–DP1 receptor paracrine axis. *Nat Immunol* 2013, doi:10.1038/ni.2586 影响因子：21.506
13. The Adipocyte-Inducible Secreted Phospholipases PLA2G5 and PLA2G2E Play Distinct Roles in Obesity. *Cell Metab* 2014, doi:10.1016/j.cmet.2014.05.002 影响因子：18.164
14. DNAJC19, a Mitochondrial Chaperone Associated with Cardiomyopathy, Forms a Complex with Prohibitins to Regulate Cardiolipin Remodeling. *Cell Metab* 2014, doi:10.1016/j.cmet.2014.04.016 影响因子：18.164
15. An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. *Cell Metab* 2018, doi:10.1016/j.cmet.2018.01.005 影响因子：18.164
16. Active, phosphorylated fingolimod inhibits histone deacetylases and facilitates fear extinction memory. *Nat Neurosci* 2014, doi:10.1038/nn.3728 影响因子：17.839
17. Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. *Blood* 2014, DOI 10.1182/blood-2014-06579466 影响因子：15.132
18. PP2A Controls Genome Integrity by Integrating Nutrient-Sensing and Metabolic Pathways with the DNA Damage Response. *Mol Cell* 2017, doi:10.1016/j.molcel.2017.05.027 影响因子：14.714
19. Functional lipidomics: palmitic acid impairs hepatocellular carcinoma development by modulating membrane fluidity and glucose metabolism. *HEPATOLOGY* 2017, doi: 10.1002/hep.29033 影响因子：14.079
20. Conjugated Bile Acids Promote Cholangiocarcinoma Cell Invasive Growth Through Activation of Sphingosine 1-Phosphate Receptor 2. *HEPATOLOGY*

2014, DOI 10.1002/hep.27085 影响因子: 14.079

21. A two-helix motif positions the active site of lysophosphatidic acid acyl-transferase for catalysis within the membrane bilayer. *Nat Struct Mol Biol* 2017, doi:10.1038/nsmb.3436 影响因子: 13.333
22. Aberrant ORM (yeast)-like protein isoform 3 (ORMDL3) expression dysregulates ceramide homeostasis in cells and ceramide exacerbates allergic asthma in mice. *J Allergy Clin Immunol* 2015, doi:10.1016/j.jaci.2015.02.031
影响因子: 13.258
23. Dysregulated synthesis of protectin D1 in eosinophils from patients with severe asthma. *J Allergy Clin Immunol* 2013, doi: 10.1016/j.jaci.2012.07.048
影响因子: 13.258
24. Online photochemical derivatization enables comprehensive mass spectrometric analysis of unsaturated phospholipid isomers. *NATURE COMMUN* 2019, doi:10.1038/s41467-018-07963-8 影响因子: 12.353
25. Tip60-mediated lipin 1 acetylation and ER translocation determine triacylglycerol synthesis rate. *NATURE COMMUN* 2018, DOI: 10.1038/s41467-018-04363-w 影响因子: 12.353
26. PNPLA1 has a crucial role in skin barrier function by directing acylceramide biosynthesis. *Nat Commun* 2017, <https://www.nature.com/articles/ncomms14609.pdf> 影响因子: 12.124
27. iPSC-derived neurons from GBA1-associated Parkinson's disease patients show autophagic defects and impaired calcium homeostasis. *Nat Commun* 2014, DOI: 10.1038/ncomms5028 影响因子: 12.124
28. Saturated fatty acids regulate retinoic acid signalling and suppress tumorigenesis by targeting fatty acid-binding protein 5. *Nat Commun* 2015, DOI: 10.1038/ncomms9794 影响因子: 12.124
29. Endocannabinoid signalling modulates susceptibility to traumatic stress exposure. *Nat Commun* 2017, DOI: 10.1038/ncomms14782 影响因子:

12.124

30. Glucocerebrosidase depletion enhances cell-to-cell transmission of a-synuclein. *Nat Commun* 2014, DOI: 10.1038/ncomms5755 影响因子: 12.124
31. Glucocorticoids limit acute lung inflammation in concert with inflammatory stimuli by induction of SphK1. *Nat Commun* 2015, DOI: 10.1038/ncomms8796 影响因子: 12.124
32. S1PR1 drives a feedforward signalling loop to regulate BATF3 and the transcriptional programme of Hodgkin lymphoma cells. *Leukemia* 2018, <https://www.nature.com/articles/leu2017275.pdf> 影响因子: 11.702
33. Lysosomotropic agents selectively target chronic lymphocytic leukemia cells due to altered sphingolipid metabolism. *Leukemia* 2016, doi: 10.1038/leu.2016.4. 影响因子: 11.702
34. Personal model-assisted identification of NAD⁺ and glutathione metabolism as intervention target in NAFLD. *Mol Syst Biol* 2017, DOI 10.15252/msb.20167422 影响因子: 10.581
35. Requirement for the histone deacetylase Hdac3 for the inflammatory gene expression program in macrophages. *PNAS* 2012, doi:10.1073/pnas.1121131109 影响因子: 9.661
36. Identification of 14-series sulfido-conjugated mediators that promote resolution of infection and organ protection. *PNAS* 2014, doi:10.1073/pnas.1415006111 影响因子: 9.661
37. Systemic Organ Wasting Induced by Localized Expression of the Secreted Insulin/IGF Antagonist ImpL2. *Develop Cell* 2015, doi:10.1016/j.devcel.2015.02.012 影响因子: 9.174
38. HDAC6 Suppresses Age-Dependent Ectopic Fat Accumulation by Maintaining the Proteostasis of PLIN2 in Drosophila. *Develop Cell* 2017, doi:10.1016/j.devcel.2017.09.001 影响因子: 9.174

39. Sphingosine-1-phosphate produced by sphingosine kinase 1 promotes breast cancer progression by stimulating angiogenesis and lymphangiogenesis. *cancer res* 2012, doi: 10.1158/0008-5472.CAN-11-2167 影响因子: 9.13
40. Lipid droplet-mediated ER homeostasis regulates autophagy and cell survival during starvation. *J Cell Biol* 2015, doi:10.1083/jcb.201508102 影响因子: 7.955
41. Phosphatidylserine transport by Ups2–Mdm35 in respiration-active mitochondria. *J Cell Biol* 2018, www.jcb.org/cgi/doi:10.1083/jcb.201601082 影响因子: 7.955
42. Activation of IRF1 in Human Adipocytes Leads to Phenotypes Associated with Metabolic Disease. *Stem Cell Rep* 2017, doi:10.1016/j.stemcr.2017.03.014 影响因子: 7.338
43. Unraveling the Temporal Pattern of Diet-Induced Insulin Resistance in Individual Organs and Cardiac Dysfunction in C57BL/6 Mice. *Diabetes* 2005, VOL. 54,3530 影响因子: 7.273
44. Enhancing Cardiac Triacylglycerol Metabolism Improves Recovery From Ischemic Stress. *Diabetes* 2015, 影响因子: 7.273
45. Resolvin D3 and Aspirin-Triggered Resolvin D3 Are Potent Immuno resolvents. *Chem Biol* 2013, doi:10.1016/j.chembiol.2012.11.010 影响因子: 6.743
46. OxLDL stimulates lipoprotein-associated phospholipase A2 expression in THP-1 monocytes via PI3K and p38 MAPK pathways. *Cardiovascular Res* 2010, doi:10.1093/cvr/cvp367 影响因子: 6.29
47. Enhanced Expression of Lp-PLA2 and Lysophosphatidylcholine in Symptomatic Carotid Atherosclerotic Plaques. *Stroke* 2007, DOI: 10.1161/STROKEAHA.107.503193 影响因子: 6.239
48. Aging dysregulates D - and E - series resolvins to modulate cardiosplenic

- and cardiorenal network following myocardial infarction. Aging 2016, Vol. 8, No. 11, 2611 影响因子: 5.179
49. Obesity-induced changes in lipid mediators persist after weight loss. Int J Obesity 2017, doi: 10.1038/ijo.2017.266. 影响因子: 5.151
50. Omega-3 fatty acids protect from diet-induced obesity, glucose intolerance, and adipose tissue inflammation through PPAR-dependent and PPAR-independent Actions. Mol Nutr Food Res 2015, DOI 10.1002/mnfr.201400914 影响因子: 5.151
51. Analysis of polyunsaturated aminophospholipid molecular species using isotope-tagged derivatives and tandem mass spectrometry/mass spectrometry/mass spectrometry. Anal Biochem 2006, doi:10.1016/j.ab.2005.11.020 影响因子: 5.12
52. Profiling and relative quantification of phosphatidylethanolamine based on acetone stable isotope derivatization. Anal Chim Acta 2016, doi:10.1016/j.aca.2015.11.003 影响因子: 5.12
53. An isotope-labeled chemical derivatization method for the quantitation of short-chain fatty acids in human feces by liquid chromatography–tandem mass spectrometry. Anal Chim Acta 2014, doi:10.1016/j.aca.2014.11.015 影响因子: 5.12
54. Metabolomic analysis revealed the role of DNA methylation in the balance of arachidonic acid metabolism and endothelial activation. Biochim Biophys Acta 2015, doi:10.1016/j.bbalip.2015.07.001 影响因子: 5.018
55. Regulation of plasma cholesterol esterification by sphingomyelin: Effect of physiological variations of plasma sphingomyelin on lecithin-cholesterol acyltransferase activity. Biochim Biophys Acta 2012, doi:10.1016/j.bbalip.2012.02.007. 影响因子: 5.018
56. Whole-body DHA synthesis-secretion kinetics from plasma eicosapentaenoic acid and alpha-linolenic acid in the free-living rat. Biochim Biophys Acta

2016, doi:10.1016/j.bbalip.2016.05.014 影响因子: 5.018

57. Poor glycemic control in type 2 diabetes enhances functional and compositional alterations of small, dense HDL3c. *Biochim Biophys Acta* 2016, doi:10.1016/j.bbalip.2016.10.014 影响因子: 5.018
58. Lipid and lipid mediator profiling of human synovial fluid in rheumatoid arthritis patients by means of LC-MS/MS. *Biochim Biophys Acta* 2012, doi:10.1016/j.bbalip.2012.07.011. 影响因子: 5.018
59. Circulating levels of endocannabinoids and oxylipins altered by dietary lipids in older women are likely associated with previously identified gene targets. *BBA - Mol Cell Biol L* 2016, doi:10.1016/j.bbalip.2016.07.007 影响因子: 4.966
60. Human Periodontal Stem Cells Release Specialized Proresolving Mediators and Carry Immunomodulatory and Prohealing Properties Regulated by Lipoxins. *STEM CELLS TRANSLAT MED* 2016, doi:10.5966/sctm.2015-0163 影响因子: 4.929
61. Pharmacological Elevation of Circulating Bioactive Phosphosphingolipids Enhances Myocardial Recovery After Acute Infarction. *STEM CELLS TRANSLAT MED* 2015, doi: 10.5966/sctm.2014-0273 影响因子: 4.929
62. Three-dimensional enhanced lipidomics analysis combining UPLC, differential ion mobility spectrometry, and mass spectrometric separation strategies. *J Lipid Res* 2014, DOI 10.1194/jlr.D051581 影响因子: 4.81
63. Quantitative analysis of sphingolipids for lipidomics using triple quadrupole and quadrupole linear ion trap mass spectrometers. *J Lipid Res* 2009, DOI 10.1194/jlr.D800051-JLR200 影响因子: 4.81
64. Novel approach in LC-MS/MS using MRM to generate a full profile of acyl-CoAs: discovery of acyl-dephospho-CoAs. *J Lipid Res* 2014, doi: 10.1194/jlr.D045112 影响因子: 4.81
65. Contrasting metabolic effects of medium- vs. long-chain fatty acids in skel-

- etal muscle. *J Lipid Res* 影响因子: 4.81
- 66. Polyunsaturated fatty acid metabolites as novel lipidomic biomarkers for noninvasive diagnosis of nonalcoholic Steatohepatitis. *J Lipid Res* 2015, DOI 10.1194/jlr.P055640 影响因子: 4.81
 - 67. Psychosine, the cytotoxic sphingolipid that accumulates in globoid cell leukodystrophy, alters membrane architecture. *J Lipid Res* 2013, DOI 10.1194/jlr.M039610 影响因子: 4.81
 - 68. Bioactive lipid mediators in polycystic kidney disease. *J Lipid Res* 2014, DOI 10.1194/jlr.P042176 影响因子: 4.81
 - 69. Analysis of phospholipid molecular species in brains from patients with infantile and juvenile neuronal-ceroid lipofuscinosis using liquid chromatography-electrospray ionization mass spectrometry. *J Neurochem* 2003, doi:10.1046/j.1471-4159.2003.01602.x 影响因子: 4.609
 - 70. Anxiolytic effect of hippocampal neurosteroids in normal and neuropathic rats with spared nerve injury. *J Neurochem* 2017, doi: 10.1111/jnc.13965 影响因子: 4.609
 - 71. Exacerbation of experimental autoimmune encephalomyelitis in ceramide synthase 6 knockout mice is associated with enhanced activation/migration of neutrophils. *Immunol Cell Biol* 2015, doi:10.1038/icb.2015.47 影响因子: 4.557
 - 72. Female-Specific Downregulation of Tissue Polymorphonuclear Neutrophils Drives Impaired Regulatory T Cell and Amplified Effector T Cell Responses in Autoimmune Dry Eye Disease. *J Immunol* 2015, doi:10.4049/jimmunol.1500610 影响因子: 4.539
 - 73. Cutting Edge: Parathyroid Hormone Facilitates Macrophage Efferocytosis in Bone Marrow via Proresolving Mediators Resolvin D1 and Resolvin D2. *J Immunol* 2014, doi:10.4049/jimmunol.1301945 影响因子: 4.539
 - 74. Regulation of Very-Long Acyl Chain Ceramide Synthesis by Acyl-CoA Bind-

- ing Protein. *J Biol Chem* 2017, doi:10.1074/jbc.M117.785345 影响因子: 4.539
75. Plasma concentrations of molecular lipid species in relation to coronary plaque characteristics and cardiovascular outcome: Results of the ATH-EROREMO-IVUS study. *Atherosclerosis* 2015, doi:10.1016/j.atherosclerosis.2015.10.022 影响因子: 4.467
76. Hyperoxidation of ether-linked phospholipids accelerates neutrophil extracellular trap formation. *Sci Rep* 2017, DOI:10.1038/s41598-017-15668-z 影响因子: 4.122
77. Discovering and validating between-subject variations in plasma lipids in healthy subjects. *SCi Rep* 2016, DOI: 10.1038/srep19139 影响因子: 4.122
78. systematic survey of lipids across mouse tissues. *Am J Physiol Endocrinol Metab* 2014, doi:10.1152/ajpendo.00371.2013. 影响因子: 4.018
79. Sphingolipidomics: High-throughput, structure-specific, and quantitative analysis of sphingolipids by liquid chromatography tandem mass spectrometry. *Methods* 2005, doi:10.1016/j.ymeth.2005.01.009 影响因子: 3.998
80. STRETCHING IMPACTS INFLAMMATION RESOLUTION IN CONNECTIVE TISSUE. *J Cell Physiol* 2016, doi:10.1002/jcp.25263 影响因子: 3.923
81. Specific Physical Exercise Improves Energetic Metabolism in the Skeletal Muscle of Amyotrophic-Lateral-Sclerosis Mice. *Front Mol Neurosci* 2017, doi:10.3389/fnmol.2017.00332 影响因子: 3.902
82. From brain to food: analysis of phosphatidylcholins, lyso-phosphatidylcholins and phosphatidylcholin-plasmalogens derivates in Alzheimer's disease human post mortem brains and mice model via mass spectrometry. *J Chromatogr A* 2011, doi:10.1016/j.chroma.2011.07.073 影响因子: 3.71
83. YPR139c/LOA1 encodes a novel lysophosphatidic acid acyltransferase associated with lipid droplets and involved in TAG homeostasis. *Mol Biol Cell* 2011, doi:10.1091/mbc.E11-07-0650 影响因子: 3.685

84. Plasma Phospholipid and Sphingolipid Alterations in Presenilin1 Mutation Carriers: A Pilot Study. *J Alzheimers Dis* 2015, doi:10.3233/JAD-150948. 影响因子: 3.476
85. γ -Aminobutyric Acid Attenuates High-Fat Diet-Induced Cerebral Oxidative Impairment via Enhanced Synthesis of Hippocampal Sulfatides. *J Agric Food Chem* 2018, DOI: 10.1021/acs.jafc.8b05246 影响因子: 3.412
86. In-depth structural characterization of phospholipids by pairing solution photochemical reaction with charge inversion ion/ion chemistry. *Anal Bioanal Chem* 2018, doi:10.1007/s00216-018-1537-1 影响因子: 3.307
87. Development of a mass-spectrometry-based lipidomics platform for the profiling of phospholipids and sphingolipids in brain tissues. *Anal Bioanal Chem* 2015, DOI 10.1007/s00216-015-8822-z 影响因子: 3.2
88. Elevated Neurosteroids in the Lateral Thalamus Relieve Neuropathic Pain in Rats with Spared Nerve Injury. *Neurosci Bull* 2016, DOI 10.1007/s12264-016-0044-7 影响因子: 3.155
89. Maternal overnutrition by hypercaloric diets programs hypothalamic mitochondrial fusion and metabolic dysfunction in rat male offspring. *Nutr Metab* 2018, doi:10.1186/s12986-018-0279-6 影响因子: 3.051
90. Plasma lipidomic profiling in murine mutants of Hermansky-Pudlak syndrome reveals differential changes in pro- and anti-atherosclerotic lipids. *Biosci Rep* 2018, doi:10.1042/BSR20182339 影响因子: 2.899
91. UV Lamp as a Facile Ozone Source for Structural Analysis of Unsaturated Lipids Via Electrospray Ionization-Mass Spectrometry. *J Am So Mass Spectrom* 2018, DOI: 10.1007/s13361-017-1861-2 影响因子: 2.896
92. Lipidomic analysis of brain tissues and plasma in a mouse model expressing mutated human amyloid precursor protein/tau for Alzheimer's disease. *Lipids Health Dis* 2013, doi:10.1186/1476-511X-12-68 影响因子: 2.663
93. Design of a regulated lentiviral vector for hematopoietic stem cell gene

therapy of globoid cell leukodystrophy. Mol Ther Methods Clin Develop 2015, doi:10.1038/mtm.2015.38 影响因子: 2.61

94. Treatment with beta-blockers is associated with lower levels of Lp-PLA2 and suPAR in carotid plaques. *Cardiovascular Pathology* 2013, doi:10.1016/j.carpath.2013.04.005 影响因子: 2.496

二、植物靶向脂质组学

1. Reduced Biosynthesis of Digalactosyldiacylglycerol, a Major Chloroplast Membrane Lipid, Leads to Oxylipin Overproduction and Phloem Cap Lignification in Arabidopsis. *Plant Cell* 2016, doi:10.1105/tpc.15.01002 影响因子:9.34
2. Identification of a Sphingolipid α -Glucuronosyltransferase That Is Essential for Pollen Function in Arabidopsis. *Plant Cell* 2014, doi:10.1105/tpc.114.129171 影响因子:9.34
3. Specific Membrane Lipid Composition Is Important for Plasmodesmata Function in Arabidopsis. *Plant Cell* 2015, doi:10.1105/tpc.114.135731 影响因子:9.34
4. Targeted Lipidomics Studies Reveal that Linolenic Acid Promotes Cotton Fiber Elongation by Activating Phosphatidylinositol and Phosphatidylinositol Monophosphate Biosynthesis. *Mol plant* 2015, doi:10.1016/j.molp.2015.02.010 影响因子:9.326
5. A keratin scaffold regulates epidermal barrier formation, mitochondrial lipid composition, and activity. *J Cell Biol* 2014, doi:10.1083/jcb.201404147 影响因子:7.955
6. GDSL lipases modulate immunity through lipid homeostasis in rice. *PLOS Pathogens* 2017, doi:10.1371/journal.ppat.1006724 影响因子:6.158
7. An enhanced plant lipidomics method based on multiplexed liquid chro-

- matography–mass spectrometry reveals additional insights into cold- and drought-induced membrane remodeling. *Plant J* 2015, doi: 10.1111/tpj.13013 影响因子: 5.775
8. A Phosphatidic Acid Binding/Nuclear Localization Motif Determines Lipin1 Function in Lipid Metabolism and Adipogenesis. *Mol Biol Cell* 2010, doi:10.1091/mbc.E10–01–0073 影响因子: 3.685

三、食品靶向脂质组学

1. Tip 60-mediated lipin 1 acetylation and ER translocation determine triacylglycerol synthesis Rate. *Nat Commun* 2018, DOI: 10.1038/s41467-018-04363-w 影响因子: 12.124
2. Profiling of Omega-Polyunsaturated Fatty Acids and Their Oxidized Products in Salmon after Different Cooking Methods. *Antioxidants* 2018, doi:10.3390/antiox7080096 影响因子: 6.53
3. Ultrasonic pretreatment in lipase-catalyzed synthesis of structured lipids with high 1,3-dioleoyl-2-palmitoylglycerol content. *Ultrason Sonochem* 2015, doi:10.1016/j.ultsonch.2014.10.015 影响因子: 6.012
4. Characterization of glycerophospholipid molecular species in six species of edible clams by high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry. *Food Chem* 2016, doi:10.1016/j.foodchem.2016.09.160 影响因子: 4.946
5. Rapid and Sensitive Detection of Free Fatty Acids in Edible Oils Based on Chemical Derivatization Coupled with Electrospray Ionization Tandem Mass Spectrometry. *Food Chem* 2017, doi: 10.1016/j.foodchem.2017.09.069 影响因子: 4.946
6. Membrane glycerolipidome of soybean root hairs and its response to nitrogen and phosphate availability. *Sci Rep* 2016, DOI: 10.1038/srep36172 影响因子: 4.122

7. Quantitation of triacylglycerols in edible oils by off-line comprehensive two-dimensional liquid chromatography–atmospheric pressure chemical ionization mass spectrometry using a single column. *J Chromatogr A* 2015, doi:10.1016/j.chroma.2015.05.058 影响因子: 3.71
8. Online profiling of triacylglycerols in plant oils by two-dimensional liquid chromatography using a single column coupled with atmospheric pressure chemical ionization mass spectrometry. *J Chromatogr A* 2013, doi:10.1016/j.chroma.2013.09.005 影响因子: 3.71
9. Profiling of triacylglycerols in plant oils by high-performance liquid chromatography–atmosphere pressure chemical ionization mass spectrometry using a novel mixed-mode column. *J Chromatogr A* 2014, doi:10.1016/j.jchromb.2014.09.039 影响因子: 3.71
10. Quantitation of triacylglycerols in edible oils by off-line comprehensive two-dimensional liquid chromatography–atmospheric pressure chemical ionization mass spectrometry using a single column. *J Chromatogr A* 2015, doi:10.1016/j.chroma.2015.05.058 影响因子: 3.71
11. Tracking Phospholipid Profiling of Muscle from *Ctenopharyngodon idellus* during Storage by Shotgun Lipidomics. *J Agric Food Chem* 2011, doi:10.1021/jf2030852 影响因子: 3.412
12. Characteristics of N-Acylhomoserine Lactones Produced by *Hafnia alvei* H4 Isolated from Spoiled Instant Sea Cucumber. *Sensors* 2017 doi:10.3390/s17040772 影响因子: 2.475

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