# Mathias J Gerl

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6259569/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 41 papers | 3,932 citations | 279701 23 h-index | 345118 36 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 6606 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Revitalizing membrane rafts: new tools and insights. Nature Reviews Molecular Cell Biology, 2010, 11, 688-699. | 16.1 | 1,110 |
| 2 | Membrane lipidome of an epithelial cell line. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1903-1907. | 3.3 | 432 |
| 3 | Segregation of sphingolipids and sterols during formation of secretory vesicles at the trans-Golgi network. Journal of Cell Biology, 2009, 185, 601-612. | 2.3 | 369 |
| 4 | Flexibility of a Eukaryotic Lipidome â€“ Insights from Yeast Lipidomics. PLoS ONE, 2012, 7, e35063. | 1.1 | 274 |
| 5 | Quantitative analysis of the lipidomes of the influenza virus envelope and MDCK cell apical membrane. Journal of Cell Biology, 2012, 196, 213-221. | 2.3 | 242 |
| 6 | CerS6-Derived Sphingolipids Interact with Mff and Promote Mitochondrial Fragmentation in Obesity. Cell, 2019, 177, 1536-1552.e23. | 13.5 | 183 |
| 7 | Comparative lipidomics analysis of HIV-1 particles and their producer cell membrane in different cell lines. Cellular Microbiology, 2013, 15, 292-304. | 1.1 | 157 |
| 8 | Genetic architecture of human plasma lipidome and its link to cardiovascular disease. Nature Communications, 2019, 10, 4329. | 5.8 | 120 |
| 9 | Rab10 is Involved in Basolateral Transport in Polarized Madin-Darby Canine Kidney Cells. Traffic, 2007, 8, 47-60. | 1.3 | 116 |
| 10 | Bifunctional Sphingosine for Cell-Based Analysis of Protein-Sphingolipid Interactions. ACS Chemical Biology, 2016, 11, 222-230. | 1.6 | 99 |
| 11 | Multi-omics profiling of living human pancreatic islet donors reveals heterogeneous beta cell trajectories towards type 2 diabetes. Nature Metabolism, 2021, 3, 1017-1031. | 5.1 | 76 |
| 12 | Cisâ€Golgi Cisternal Assembly and Biosynthetic Activation Occur Sequentially in Plants and Algae. Traffic, 2013, 14, 551-567. | 1.3 | 75 |
| 13 | Large-scale human skin lipidomics by quantitative, high-throughput shotgun mass spectrometry. Scientific Reports, 2017, 7, 43761. | 1.6 | 53 |
| 14 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. PLoS Biology, 2019, 17, e3000443. | 2.6 | 51 |
| 15 | Morphology and Molecular Composition of Purified Bovine Viral Diarrhea Virus Envelope. PLoS Pathogens, 2016, 12, e1005476. | 2.1 | 50 |
| 16 | Enlightening discriminative network functional modules behind Principal Component Analysis separation in differential-omic science studies. Scientific Reports, 2017, 7, 43946. | 1.6 | 45 |
| 17 | Cholesterol is Inefficiently Converted to Cholesteryl Esters in the Blood of Cardiovascular Disease Patients. Scientific Reports, 2018, 8, 14764. | 1.6 | 44 |
| 18 | Lipidomics in Major Depressive Disorder. Frontiers in Psychiatry, 2018, 9, 459. | 1.3 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Replication and cross-validation of type 2 diabetes subtypes based on clinical variables: an IMI-RHAPSODY study. Diabetologia, 2021, 64, 1982-1989. | 2.9 | 44 |
| 20 | Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. PLoS ONE, 2016, 11, e0153009. | 1.1 | 38 |
| 21 | Generation of Cubic Membranes by Controlled Homotypic Interaction of Membrane Proteins in the Endoplasmic Reticulum. Journal of Biological Chemistry, 2009, 284, 12041-12048. | 1.6 | 36 |
| 22 | Plasma Lipidome and Prediction of Type 2 Diabetes in the Population-Based MalmÃ¶ Diet and Cancer Cohort. Diabetes Care, 2020, 43, 366-373. | 4.3 | 35 |
| 23 | Mouse lipidomics reveals inherent flexibility of a mammalian lipidome. Scientific Reports, 2021, 11, 19364. | 1.6 | 31 |
| 24 | A plasma lipid signature predicts incident coronary artery disease. International Journal of Cardiology, 2021, 331, 249-254. | 0.8 | 30 |
| 25 | Distinct Molecular Signatures of Clinical Clusters in People With Type 2 Diabetes: An IMI-RHAPSODY Study. Diabetes, 2021, 70, 2683-2693. | 0.3 | 26 |
| 26 | Coronary Artery Disease Risk and Lipidomic Profiles Are Similar in Hyperlipidemias With Family History and Populationâ€Ascertained Hyperlipidemias. Journal of the American Heart Association, 2019, 8, e012415. | 1.6 | 24 |
| 27 | Identification of a feedback loop involving Î²-glucosidase 2 and its product sphingosine sheds light on the molecular mechanisms in Gaucher disease. Journal of Biological Chemistry, 2017, 292, 6177-6189. | 1.6 | 22 |
| 28 | Lipidomic risk scores are independent of polygenic risk scores and can predict incidence of diabetes and cardiovascular disease in a large population cohort. PLoS Biology, 2022, 20, e3001561. | 2.6 | 22 |
| 29 | Shotgun Lipidomics Discovered Diurnal Regulation of Lipid Metabolism Linked to Insulin Sensitivity in Nondiabetic Men. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1501-1514. | 1.8 | 17 |
| 30 | Shotgun mass spectrometry-based lipid profiling identifies and distinguishes between chronic inflammatory diseases. EBioMedicine, 2021, 70, 103504. | 2.7 | 16 |
| 31 | Plasma lipidomics of monozygotic twins discordant for multiple sclerosis. Annals of Clinical and Translational Neurology, 2020, 7, 2461-2466. | 1.7 | 11 |
| 32 | Adverse Effects of Refeeding on the Plasma Lipidome inÂYoung Individuals With Anorexia Nervosa?. Journal of the American Academy of Child and Adolescent Psychiatry, 2021, 60, 1479-1490. | 0.3 | 11 |
| 33 | Proteomic and lipidomic profiling of demyelinating lesions identifies fatty acids as modulators in lesion recovery. Cell Reports, 2021, 37, 109898. | 2.9 | 11 |
| 34 | Analysis of Transmembrane Domains and Lipid Modified Peptides with Matrix-Assisted Laser Desorption Ionization-Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2014, 86, 3722-3726. | 3.2 | 7 |
| 35 | A set of gene knockouts as a resource for global lipidomic changes. Scientific Reports, 2022, 12, . | 1.6 | 4 |
| 36 | Proteomic and Metabolomic Characterization of Metabolically Healthy Obesity: A Descriptive Study from a Swedish Cohort. Journal of Obesity, 2021, 2021, 1-9. | 1.1 | 3 |

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|---|---|---|---|
| 37 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443. | | 0 |
| 38 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443. | | 0 |
| 39 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443. | | 0 |
| 40 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443. | | 0 |
| 41 | Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443. | | 0 |