

Supplementary material

(*TrAC-Trends in Analytical Chemistry*)

Comprehensive analysis of lipids in biological systems by liquid chromatography–mass spectrometry

Tomas Cajka, Oliver Fiehn

UC Davis Genome Center – Metabolomics, University of California, Davis, 451 Health Sciences Drive, Davis, CA 95616, USA

Table S1

Overview of analyzed biological material in LC–MS-based lipidomics papers

| <i>Matrix</i> | <i>References</i> |
|---------------------------|---|
| Plasma or serum | [1-82] |
| Animal tissues | [17,28,34-36,40,44,56,60,62,65,79,83-117] |
| Cells | [10,34,62,65,69,85,106,114,118-154] |
| Plant tissues | [94,155-160] |
| Apicoplasts | [161] |
| Microsomes | [162] |
| Mitochondria | [163-166] |
| Lipoprotein particles | [167-170] |
| Milk | [171-173] |
| Oxidized oils | [174] |
| <i>Drosophila</i> | [175] |
| Microalgae | [176] |
| Mesenteric lymph | [33] |
| Cerebrospinal fluid | [65] |
| Placental microvesicle | [177] |
| Synovial fluid | [178] |
| Tear samples | [179] |
| Sebum | [154] |
| Hetapocyte lipid droplets | [180] |
| Urine | [181-183] |
| Solid fecal material | [184] |

Table S2

Overview of liquid chromatography configurations in LC–MS-based lipidomics papers

| <i>LC configuration</i> | <i>References</i> |
|--|---|
| Reversed-phase LC | [1-32,34,36,37,39-42,44-59,61-65,67-74,78-82,84,86-89,92-96,98-106,108-113,115,116,118,119,121-123,125,127,130,131,135-139,141,142,147,149,151-153,156-159,161-164,166,167,169,170,172,174-176,178-185] |
| Capillary and nanobore reversed-phase LC | [23,61,69,111,167,181,182] |
| Normal-phase LC | [4,14,26,33,46,66,75-77,83,85,90,91,93,99,103,107,113,114,117,120,125,128,132-134,138,140,144-146,148,150,153,165-167,175,177] |
| Hydrophilic interaction chromatography (HILIC) | [6,35,37,38,43,60,84,94,97,124-126,154,155,168,172,173] |
| Supercritical fluid chromatography (SFC) | [12,160,171] |
| Two-dimensional liquid chromatography (2D-LC) | [6,14,23,84,93,94,103,153,162,172] |

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