

S 2. Significantly changed metabolites in the male rat's serum when disturbed by YJB

| <i>t</i> | <i>m/z</i> | <i>Ionization mode</i> | <i>Metabolite</i> | <i>Peak area (mean±SD)</i> | | | | <i>P-value</i> | |
|----------|------------|------------------------|---|----------------------------|---------------|--------------|---|--------------------------------|-------------------------------|
| | | | | Sham control | Castrated CIA | YJB treated | | Sham control vs. Castrated CIA | YJB-treated vs. Castrated CIA |
| 15.4 | 496.3 | ESI+ | LPC C16:0 | 903.7±55.6 | 1014.5±72.2 | 967.3±65.4 | ↓ | 0.003 | 0.17 |
| 16.0 | 522.3 | ESI+ | LPC C18:1 | 222.3±21.8 | 179.1±17.8 | 194.7±30.0 | ↑ | 0.000043 | 0.2 |
| 17.0 | 525.3 | ESI+ | Isotope of LPC C18:0 | 312.9±28.6 | 363.7±51.0 | 303.5±34.4 | | 0.03 | 0.01 |
| 17.1 | 524.3 | ESI+ | LPC C18:0 | 1185.4±93.5 | 1388.7±111.4 | 1219.9±105.7 | ↓ | 0.001 | 0.005 |
| 19.2 | 303.2 | ESI- | FFA C20:4 | 163.8±19.6 | 134.3±12.5 | 146.9±20.8 | ↑ | 0.002 | 0.14 |
| 15.4 | 566.3 | ESI- | LPC C18:1 [M ⁺ HCOO] ⁻ | 251.4±25.8 | 218.5±12.9 | 228.6±15.1 | ↑ | 0.006 | 0.18 |
| 15.4 | 506.3 | ESI- | LPC C18:1 [M ⁻ CH ₃] ⁻ | 281.4±33.5 | 235.8±29.6 | 238.4±20.4 | | 0.009 | 0.83 |
| 19.0 | 327.2 | ESI- | FFA C22:6 | 86.1±21.4 | 59.5±11.1 | 71.0±17.1 | ↑ | 0.005 | 0.11 |
| 14.5 | 528.3 | ESI- | LPC C20:4 [M ⁻ CH ₃] ⁻ | 250.6±24.3 | 222.9±22.7 | 197.7±10.6 | ↓ | 0.03 | 0.008 |
| 14.7 | 540.3 | ESI- | LPC C16:0 [M ⁺ HCOO] ⁻ | 555.5±60.9 | 688.5±79.2 | 622.3±29.3 | ↓ | 0.002 | 0.04 |
| 16.5 | 569.3 | ESI- | Isotope of LPC C18:0 [M ⁺ HCOO] ⁻ | 160.8±8.6 | 235.9±40.0 | 192.1±23.4 | | 0.000041 | 0.014 |
| 16.5 | 568.3 | ESI- | LPC C18:0 [M ⁺ HCOO] ⁻ | 585.8±35.1 | 786.8±124.5 | 664.0±41.2 | ↓ | 0.001 | 0.02 |
| 16.5 | 508.3 | ESI- | LPC C18:0 [M ⁻ CH ₃] ⁻ | 507.1±33.6 | 639.7±79.2 | 542.6±51.4 | ↓ | 0.000078 | 0.007 |
| 16.4 | 509.3 | ESI- | Isotope of LPC C18:0 [M ⁻ CH ₃] ⁻ | 131.9±9.6 | 189±36.0 | 148.5±6.8 | | 0.001 | 0.097 |
| 14.7 | 480.3 | ESI- | LPC C16:0 [M ⁻ CH ₃] ⁻ | 600.5±65.0 | 727.3±75.7 | 666.5±30.4 | | 0.002 | 0.048 |
| 14.4 | 241.4 | ESI- | unknown | 49.7±19.0 | 15±5.3 | 11.0±2.1 | | 0.001 | 0.06 |
| 14.5 | 588.3 | ESI- | LPC C20:4 [M ⁺ HCOO] ⁻ | 241.8±21.9 | 208.3±21.9 | 186.2±12.9 | ↓ | 0.007 | 0.02 |
| 13.8 | 478.3 | ESI- | LPC C16:1 [M ⁻ CH ₃] ⁻ | 58.2±10.7 | 41±6.2 | 51.7±7.5 | ↑ | 0.000092 | 0.005 |
| 18.1 | 301.2 | ESI- | FFA C20:5 | 23.6±6.5 | 9.7±2.5 | 11.9±4.5 | ↑ | 0.0000021 | 0.22 |
| 20.6 | 281.2 | ESI- | FFA C18:1 | 41.5±8.4 | 29.0±6.0 | 36.2±12.1 | ↑ | 0.003 | 0.13 |