

**Table S7. Summary of Statistically Significant Metabolomic Changes in Liver, Inguinal Adipose Tissue, Skeletal Muscle and Serum.**

<i>Statistical Comparisons: Welch's Two Sample t-Test</i>		
<b><i>Liver</i></b>	<b>MR vs CF</b>	<b>MRC vs CF</b>
Total number of biochemicals, $p \leq 0.05$	<b>229</b>	<b>135</b>
Biochemicals, $p \leq 0.05$ (↑ ↓)	<b>65 164</b>	<b>51 84</b>
Total number of biochemicals, $0.05 < p < 0.01$	<b>39</b>	<b>54</b>
Biochemicals, $0.05 < p < 0.01$ (↑ ↓)	<b>13 26</b>	<b>17 37</b>
<b><i>Inguinal Adipose Tissue</i></b>		
Total number of biochemicals, $p \leq 0.05$	<b>39</b>	<b>5</b>
Biochemicals, $p \leq 0.05$ (↑ ↓)	<b>30 9</b>	<b>2 3</b>
Total number of biochemicals, $0.05 < p < 0.01$	<b>31</b>	<b>9</b>
Biochemicals, $0.05 < p < 0.01$ (↑ ↓)	<b>23 8</b>	<b>7 2</b>
<b><i>Muscle</i></b>		
Total number of biochemicals, $p \leq 0.05$	<b>84</b>	<b>41</b>
Biochemicals, $p \leq 0.05$ (↑ ↓)	<b>33 51</b>	<b>32 9</b>
Total number of biochemicals, $0.05 < p < 0.01$	<b>33</b>	<b>19</b>
Biochemicals, $0.05 < p < 0.01$ (↑ ↓)	<b>12 21</b>	<b>13 6</b>
<b><i>Serum</i></b>		
Total number of biochemicals, $p \leq 0.05$	<b>141</b>	<b>87</b>
Biochemicals, $p \leq 0.05$ (↑ ↓)	<b>55 86</b>	<b>23 64</b>
Total number of biochemicals, $0.05 < p < 0.01$	<b>27</b>	<b>38</b>
Biochemicals, $0.05 < p < 0.01$ (↑ ↓)	<b>11 16</b>	<b>8 30</b>