

Supplementary Table S3. Correlations among acylcarnitines and the swimmers' performances over distances and the critical velocity (CV).

| | Male | | | | | Female | | | | |
|----------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| | 100-m | 200-m | 400-m | 800-m | CV | 100-m | 200-m | 400-m | 800-m | CV |
| Free carnitine | 0.22 | 0.34 | 0.22 | 0.14 | -0.13 | 0.10 | 0.06 | 0.12 | 0.08 | -0.09 |
| C2 | 0.13 | 0.28 | 0.18 | 0.23 | -0.28 | 0.13 | 0.06 | 0.09 | 0.09 | -0.11 |
| C3 | 0.08 | 0.03 | 0.22 | 0.26 | -0.27 | 0.03 | -0.18 | -0.04 | 0.03 | -0.04 |
| C4 | 0.17 | -0.09 | 0.01 | 0.13 | -0.12 | 0.35 | 0.09 | 0.26 | 0.25 | -0.27 |
| C5 | -0.31 | -0.22 | -0.24 | -0.27 | 0.27 | 0.06 | 0.08 | 0.01 | 0.13 | -0.11 |
| C6 | 0.28 | 0.32 | 0.16 | 0.23 | -0.21 | 0.14 | 0.24 | 0.06 | 0.16 | -0.17 |
| C8 | 0.16 | 0.24 | 0.01 | 0.08 | -0.06 | 0.17 | 0.20 | 0.19 | 0.16 | -0.19 |
| C10 | 0.15 | 0.29 | 0.01 | 0.07 | -0.05 | -0.03 | -0.14 | -0.12 | -0.04 | 0.04 |
| C12 | 0.07 | 0.21 | -0.07 | -0.01 | 0.00 | -0.18 | -0.43 | -0.31 | -0.28 | 0.27 |
| C14 | -0.13 | 0.03 | -0.19 | -0.11 | 0.12 | -0.19 | -0.42 | -0.33 | -0.29 | 0.29 |
| C16 | -0.16 | -0.00 | -0.22 | -0.18 | 0.19 | -0.21 | -0.46 | -0.31 | -0.26 | 0.24 |
| C18 | -0.16 | 0.01 | -0.32 | -0.23 | 0.21 | -0.23 | -0.27 | -0.26 | -0.19 | 0.16 |