

Table S5: Spearman correlation coefficients among particular variables.

| | | age | size | | | | strain | | | | H_{IT} | | E_{IT} | | C_{IT} | | η_{IT} | |
|-------------|-----|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|
| | | | IN | OUT | ME | DI | IN | OUT | ME | DI | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| age | | 1.000 | 1.000 | 1.000 | 0.891 | 0.936 | -0.486 | -0.542 | 0.264 | -0.673 | 0.800 | 0.845 | 0.818 | 0.782 | -0.533 | -0.770 | 0.809 | 0.909 |
| size | IN | 1.000 | 1.000 | 1.000 | 0.943 | 0.943 | -0.486 | -0.543 | -0.314 | -0.943 | 1.000 | 0.657 | 1.000 | 0.829 | -0.657 | -0.900 | 0.943 | 0.600 |
| | OUT | 1.000 | 1.000 | 1.000 | 0.943 | 0.943 | -0.486 | -0.543 | -0.314 | -0.943 | 1.000 | 0.657 | 1.000 | 0.829 | -0.657 | -0.900 | 0.943 | 0.600 |
| | ME | 0.891 | 0.943 | 0.943 | 1.000 | 0.791 | -0.257 | -0.371 | 0.481 | -0.464 | 0.918 | 0.700 | 0.873 | 0.718 | -0.579 | -0.842 | 0.945 | 0.827 |
| strain | DI | 0.936 | 0.943 | 0.943 | 0.791 | 1.000 | -0.429 | -0.486 | 0.200 | -0.718 | 0.764 | 0.882 | 0.791 | 0.836 | -0.524 | -0.685 | 0.764 | 0.836 |
| | IN | -0.486 | -0.486 | -0.486 | -0.257 | -0.429 | 1.000 | 0.943 | 0.600 | 0.429 | -0.486 | -0.600 | -0.486 | -0.486 | 0.143 | 0.600 | -0.429 | -0.657 |
| | OUT | -0.543 | -0.543 | -0.543 | -0.371 | -0.486 | 0.943 | 1.000 | 0.543 | 0.486 | -0.543 | -0.657 | -0.543 | -0.600 | -0.029 | 0.600 | -0.486 | -0.600 |
| | ME | 0.264 | -0.3314 | -0.314 | 0.482 | 0.200 | 0.600 | 0.543 | 1.000 | 0.218 | 0.291 | 0.291 | 0.200 | 0.173 | -0.123 | -0.345 | 0.445 | 0.473 |
| H_{IT} | DI | -0.673 | -0.943 | -0.943 | -0.464 | -0.718 | 0.429 | 0.486 | 0.218 | 1.000 | -0.500 | -0.645 | -0.536 | -0.636 | 0.273 | 0.467 | -0.482 | -0.600 |
| | IN | 0.800 | 1.000 | 1.000 | 0.918 | 0.764 | -0.486 | -0.543 | 0.291 | -0.500 | 1.000 | 0.773 | 0.982 | 0.845 | -0.551 | -0.806 | 0.982 | 0.727 |
| E_{IT} | OUT | 0.845 | 0.657 | 0.657 | 0.700 | 0.882 | -0.600 | -0.657 | 0.209 | -0.645 | 0.773 | 1.000 | 0.845 | 0.955 | -0.333 | -0.721 | 0.764 | 0.845 |
| | IN | 0.818 | 1.000 | 1.000 | 0.873 | 0.791 | -0.486 | -0.543 | 0.200 | -0.536 | 0.982 | 0.845 | 1.000 | 0.900 | 0.900 | -0.524 | -0.794 | 0.945 |
| C_{IT} | OUT | 0.782 | 0.829 | 0.829 | 0.718 | 0.836 | -0.486 | -0.600 | 0.173 | -0.636 | 0.845 | 0.954 | 0.900 | 1.000 | -0.309 | -0.685 | 0.818 | 0.755 |
| | IN | -0.533 | -0.657 | -0.657 | -0.579 | -0.524 | 0.143 | -0.029 | -0.123 | 0.273 | -0.551 | -0.333 | -0.524 | -0.310 | 1.000 | 8.999 | -0.556 | -0.460 |
| η_{IT} | OUT | -0.770 | -0.900 | -0.900 | -0.842 | -0.685 | 0.600 | 0.600 | -0.345 | 0.467 | -0.806 | -0.721 | -0.794 | -0.685 | 0.899 | 1.000 | -0.842 | -0.818 |
| | IN | 0.809 | 0.943 | 0.943 | 0.945 | 0.764 | -0.429 | -0.486 | 0.445 | -0.481 | 0.982 | 0.764 | 0.945 | 0.818 | -0.556 | -0.842 | 1.000 | 0.791 |
| | OUT | 0.909 | 0.600 | 0.600 | 0.827 | 0.836 | -0.657 | -0.600 | 0.473 | -0.600 | 0.727 | 0.845 | 0.727 | 0.755 | -0.460 | -0.818 | 0.791 | 1.000 |