**Supplemental Table 1.** Statistical analysis of red count in every image for every single time point for necrosis of IPEC-1 cells after TNF-α challenge in the IncuCyte ZOOM™ live cell imaging system.

| Items (red count/image) | PBS CON | DHA | TNF-α CON | DHA | SEM | DHA | TNF-α | Interaction |
|-------------------------|---------|-----|-----------|-----|-----|------|--------|-------------|
| 26 h                    | 14.562  | 13.375 | 13.395    | 11.812 | 1.291 | 0.308 | 0.308 | 0.887       |
| 28 h                    | 10.250  | 12.188 | 12.625    | 11.750 | 1.421 | 0.715 | 0.508 | 0.342       |
| 30 h                    | 11.063  | 14.562 | 13.625    | 12.563 | 1.115 | 0.296 | 0.805 | 0.063       |
| 32 h                    | 11.938  | 14.375 | 10.875    | 12.25  | 1.097 | 0.108 | 0.172 | 0.637       |
| 34 h                    | 13.188  | 14.875 | 12.063    | 11.938 | 1.162 | 0.514 | 0.106 | 0.451       |
| 36 h                    | 12.500  | 11.812 | 13.875    | 12.500 | 0.854 | 0.250 | 0.250 | 0.694       |
| 38 h                    | 15.438  | 13.813 | 12.938    | 13.188 | 1.291 | 0.604 | 0.249 | 0.481       |
| 40 h                    | 16.688  | 13.375 | 17.063    | 14.313 | 1.765 | 0.111 | 0.716 | 0.876       |
| 42 h                    | 16.000  | 15.813 | 17.063    | 14.500 | 1.417 | 0.351 | 0.931 | 0.418       |
| 44 h                    | 17.750  | 16.375 | 19.875    | 15.832 | 1.213 | 0.045 | 0.527 | 0.293       |
| 46 h                    | 21.563  | 17.438 | 27.500    | 20.250 | 1.770 | 0.007 | 0.029 | 0.395       |
| 48 h                    | 20.953  | 19.833 | 28.063    | 22.918 | 1.157 | 0.064 | 0.003 | 0.479       |
| Time (h) | Value1  | Value2  | Value3  | Value4  | Value5  | p-value | Significance |
|---------|---------|---------|---------|---------|---------|---------|-------------|
| 50      | 23.625  | 20.563  | 32.875  | 30.668  | 1.412   | 0.087   | <0.001      | 0.767       |
| 52      | 20.563  | 20.063  | 34.750  | 34.500  | 1.965   | 0.852   | <0.001      | 0.950       |
| 54      | 23.813  | 23.375  | 46.375  | 45.750  | 2.745   | 0.850   | <0.001      | 0.973       |
| 56      | 23.313  | 22.688  | 46.000  | 49.583  | 3.915   | 0.712   | <0.001      | 0.601       |
| 58      | 24.625  | 24.438  | 62.063  | 58.668  | 4.779   | 0.714   | <0.001      | 0.743       |
| 60      | 22.688  | 25.500  | 60.938  | 57.833  | 5.255   | 0.978   | <0.001      | 0.584       |
| 62      | 25.938  | 28.750  | 71.875  | 73.582  | 6.253   | 0.724   | <0.001      | 0.931       |
| 64      | 24.375  | 26.375  | 72.625  | 71.500  | 4.950   | 0.931   | <0.001      | 0.758       |
| 66      | 25.625  | 30.875  | 93.250  | 84.083  | 7.626   | 0.802   | <0.001      | 0.363       |
| 68      | 24.125  | 28.313  | 94.125  | 85.118  | 6.665   | 0.768   | <0.001      | 0.371       |
| 70      | 28.333<sup>c</sup> | 33.438<sup>c</sup> | 117.063<sup>a</sup> | 89.860<sup>b</sup> | 4.995   | 0.047   | <0.001      | 0.007       |
| 72      | 25.625<sup>c</sup> | 27.021<sup>c</sup> | 110.875<sup>a</sup> | 87.000<sup>b</sup> | 5.585   | 0.039   | <0.001      | 0.070       |

<sup>abc</sup>Means without a common letter differ, *P < .05*