# Table S1

RyR cluster distribution characteristics measured in the four cells in Fig. S1. The cross-sectional area and depth are the dimensions of the field of view within the yellow rectangular windows in Fig. S1. Characteristics of the RyR cluster distribution in the four cells were calculated within this field of view. N is the number of clusters within the field of view; ρ is the density of clusters per unit volume of field of view. An explanation of z-disc radial distance can be found in Text S1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Cell 1** | **Cell 2** | **Cell 3** | **Cell 4** |
| **Cross-sectional area (μm2)** | 73.8 | 103.5 | 87.3 | 120.7 |
| **Depth (μm)** | 5.2 | 5.4 | 5.4 | 5.8 |
| **Number of z-discs** | 4 | 4 | 4 | 4 |
| **N** | 328 | 518 | 520 | 686 |
| **ρ (couplons per μm3)** | 0.85 | 0.93 | 1.1 | 0.98 |
| **Nearest-neighbour distance mean±sd(μm)** | 0.59±0.15 | 0.57±0.15 | 0.56±0.14 | 0.57±0.14 |
| **z-disc radial distance mean±sd(μm)** | 0.26±0.14 | 0.23±0.14 | 0.25±0.14 | 0.24±0.14 |