**Supplementary file 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
| **Condition & Genotype** | ***N*** | ***n of ribbons* with CC structures/total n** | **Clathrin-coated (CC) structures** |
| **0 – 100 nm** | **100 – 200 nm** | **200 - 500 nm** |
| CCVs | Invagina-tions | CCVs | Invagina-tions | CCVs | Invagina-tions |
|  |  |  | (y=Distance to membrane, x=Distance to PD, d=Diameter in nm) |
| ChR2ShortStim | 1  |  1/11 ribbons  | - | - | - | - | y=38x=455d=121 | - |
|  |  | 2/11 ribbons  | - | - | - | - | y=54x=498d=102 | - |
| ChR2LongStim | 4  | 1/26 ribbons  | - | - | - | x=160 | y=48x=345d=69 | - |
|  |  | 2/26 ribbons  | - | - | y=78x=144d=109 | - | - | - |
|  |  | 1/26 ribbons  | - | - | - | - | - | x=315 |
| LongStim B6J  | 2  | 1/15 ribbons  | - | - | y=8x=126d=107 | - | - | - |
|  |  | 2/15 ribbons  | - | x=80 | y=30x=185d=94 | - | - | - |
|  |  | 3/15 ribbons  | - | - | y=8x=170d=74  | - | - | - |
| ChR2 NoLight  | 4  | 1/17 ribbons  | y=48x=90d=63 | - | - | - | - | - |

 |

**List of clathrin-coated (CC) structures at the active zone**

Statistics could not be performed due to the rare abundance of CC structures at the AZ in our tomograms. The grey columns indicate CC structures intermingled with the MP-SV pool.