S1 Table

Results of LCR detection analysis performed by XYTEventDetector using Ca signal recordings by PCO.edge 4.2 CMOS camera in SA node cells of rabbit and guinea pig, 4 cells of each species.

| Parameters                  | Rabbit | Guinea Pig |
|-----------------------------|--------|------------|
|                            | cell#1 | cell#2 | cell#3 | cell#4 | Mean | cell#1 | cell#2 | cell#3 | cell#4 | Mean |
| Cycle Length (ms)           | 540    | 690     | 480    | 560    | 567.5 | 1370   | 690    | 380    | 800    | 810.0 |
| Path Size (µm²)             | 2.427  | 5.211   | 3.01994| 1.216  | 3.0   | 5.641  | 1.218  | 7.233  | 1.03   | 3.8   |
| Duration (ms)               | 12.5   | 14.3    | 12.3   | 11.2   | 12.6  | 24.4   | 10.8   | 15.5   | 11.1   | 15.5  |
| LCR Period (ms)             | 471.5  | 446.7   | 221.1  | 370.6  | 377.5 | 843    | 451.4  | 229.8  | 474.7  | 499.7 |
| LCRs/Cycle                  | 59     | 48      | 81     | 119    | 76.8  | 184    | 87     | 52     | 75     | 99.5  |
| False positives rate%       | 0      | 0       | 6.7    | 0.97   | 1.9   | 0      | 0      | 0      | 0      | 0.0   |
| Max Filter                  | 100    | 100     | 75     | 100    | 93.8  | 100    | 100    | 100    | 100    | 100.0 |
| SD Detection                | 0.4    | 0.4     | 0.4    | 0.4    | 0.4   | 0.4    | 0.3    | 0.3    | 0.3    | 0.3   |
| SD Termination              | 1.5    | 1.5     | 1.5    | 1.5    | 1.5   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   |
| Search Distance             | 8      | 8       | 8      | 4      | 7.0   | 8      | 7      | 8      | 7      | 7.5   |
| Size Threshold              | 7      | 7       | 7      | 7      | 7.0   | 7      | 7      | 7      | 7      | 7.0   |
| Intensity Threshold         | 50     | 50      | 50     | 50     | 50.0  | 50     | 50     | 50     | 50     | 50.0  |
| % Transient Cutoff          | 99     | 70      | 90     | 90     | 87.3  | 70     | 70     | 70     | 70     | 70.0  |
| Cell size (µm²)             | 683.13 | 281.73  | 654.91 | 415.91 | 508.9 | 483.28 | 925.5  | 1093.06| 705.81 | 801.9 |

Results are mean values obtained in one pacemaker cycle in each cell. Grey area shows specific input program parameters to analyze recordings in each cell.