

**File Name:** Supplementary Movie 1

**Description:** Thrashing of *wt*

**File Name:** Supplementary Movie 2

**Description:** Thrashing of *aipr-1(zw86)*

**File Name:** Supplementary Movie 3

**Description:** Thrashing of *ryr-1(e540)*

**File Name:** Supplementary Movie 4

**Description:** Thrashing of *aipr-1(zw86) ryr-1(e540)*

**File Name:** Supplementary Movie 5

**Description:** Thrashing of *unc-2(e55)*

**File Name:** Supplementary Movie 6

**Description:** Thrashing of *aipr-1(zw86) unc-2(e55)*

**File Name:** Supplementary Movie 7

**Description:** Calcium transients of wild type

**File Name:** Supplementary Movie 8

**Description:** Calcium transients of *aipr-1* RNAi

**File Name:** Supplementary Movie 9

**Description:** Calcium transients of *ryr-1* RNAi

**File Name:** Supplementary Movie 10

**Description:** Calcium transients of *aipr-1 ryr-1* double RNAi