

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Movement of Marchantia Wild-Type Sperm Discharged into Water. The movie of discharged sperm of Mpmid-1ko plant was taken at the rate of 20 frames per second (fps) for 6 sec by a microscope camera DP26 (OLYMPUS).

File Name: Supplementary Movie 2

Description: Movement of Marchantia Mpmid-1ko Sperm Discharged into Water. The movie of discharged sperm of WT plant was taken at the rate of 4 frames per second (fps) for 30 sec by a microscope camera DP26 (OLYMPUS).