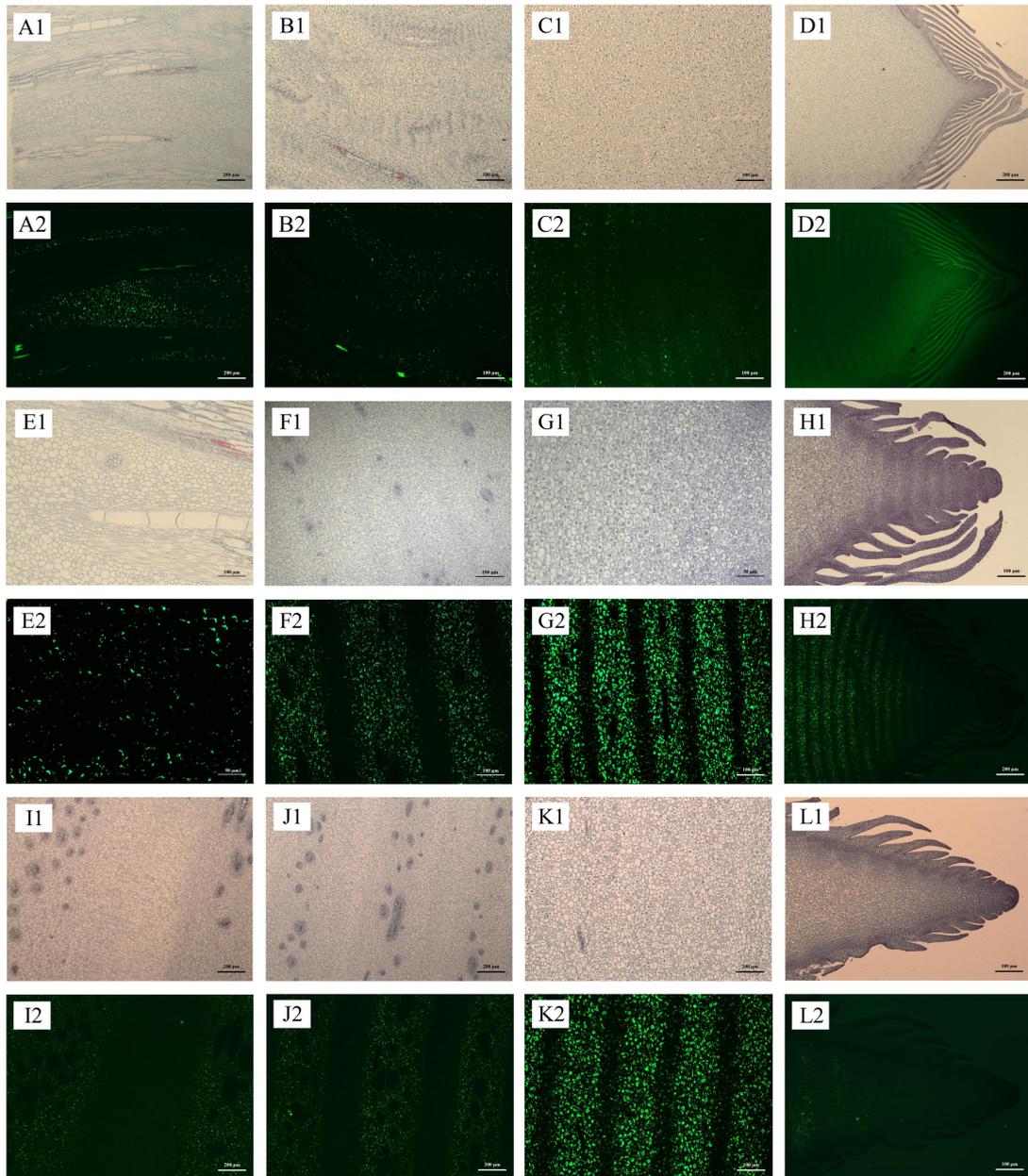
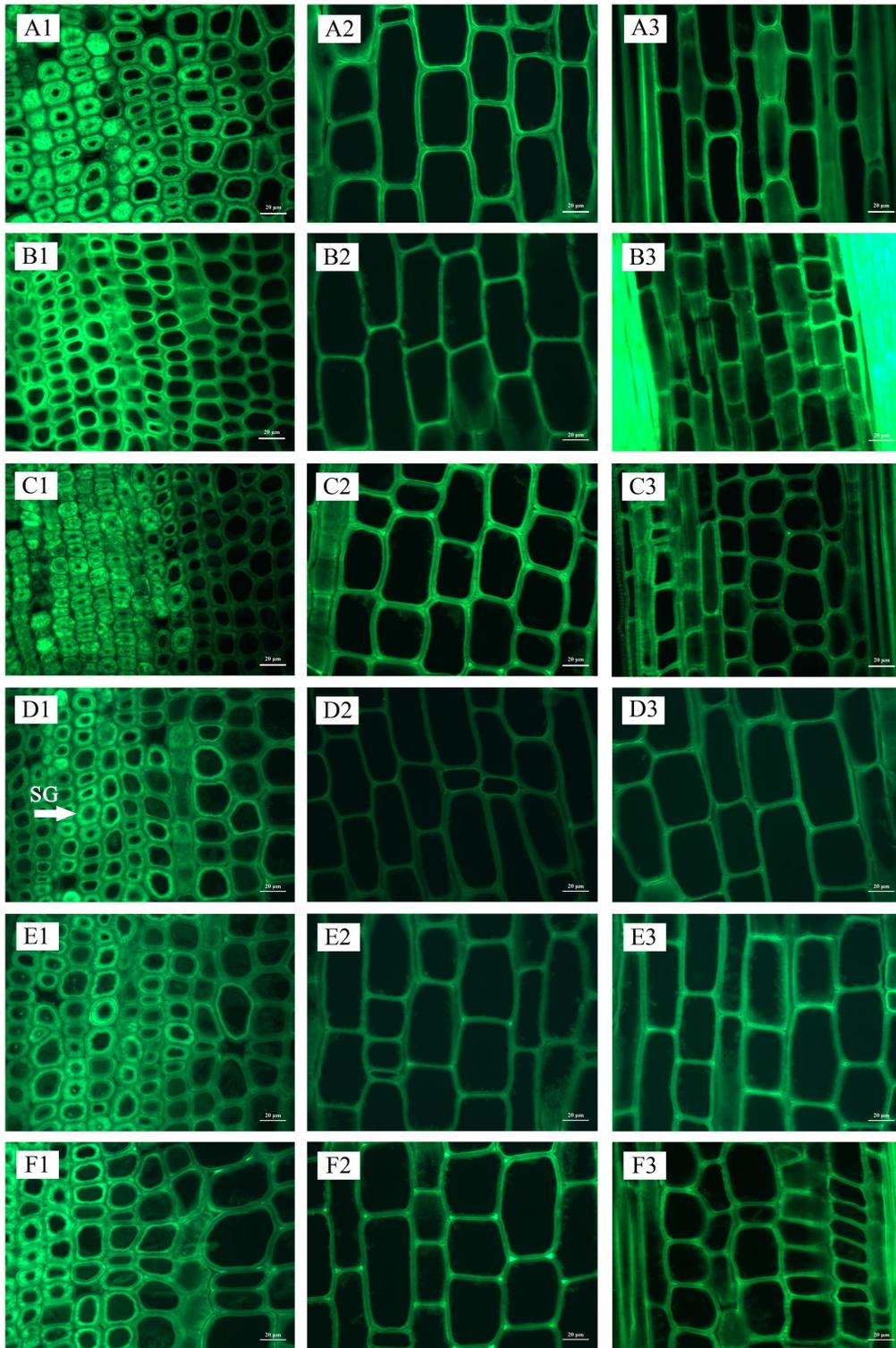


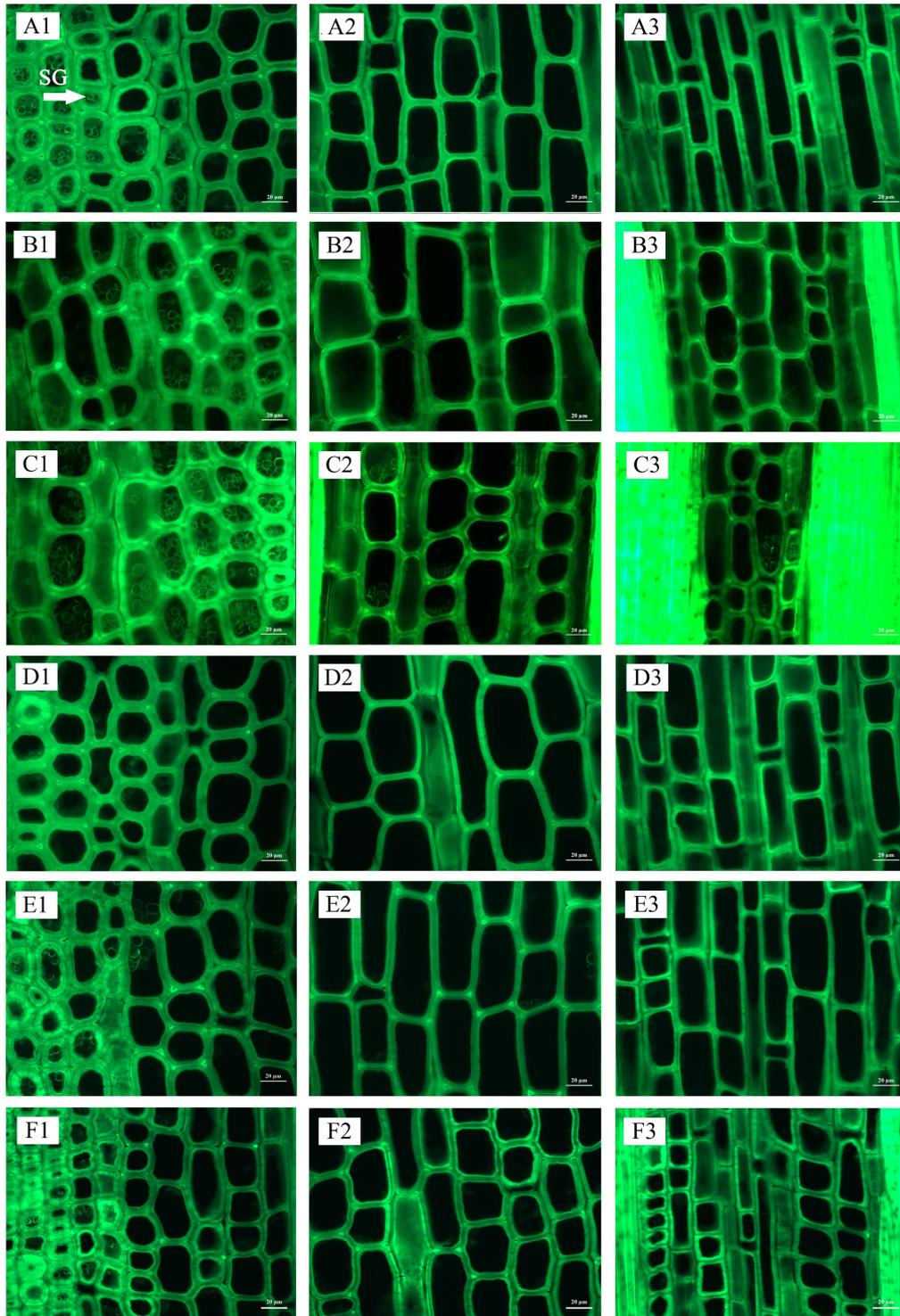
**Figure S1.** Anatomical structure and starch granules distribution of winter shoot buds during dormant stage, germination stage, and early developmental stage. (**A1**) Anatomical structure of the base of shoot buds at the dormant stage; (**B1**) Anatomical structure of the middle of shoot buds at the dormant stage; (**C1**) Anatomical structure of the upper part of shoot buds at the dormant stage; (**D1**) Anatomical structure of the top of shoot buds at the dormant stage; (**A2~D2**) Fluorescence corresponding to (**A1~D1**); (**E1**) Anatomical structure of the base of shoot buds at the germination stage; (**F1**) Anatomical structure of the middle of shoot buds at the dormant stage; (**G1**) Anatomical structure of the upper part of shoot buds at the germination stage; (**H1**) Anatomical structure of the top of shoot buds at the germination stage; (**E2~H2**) Fluorescence corresponding to (**E1~H1**); (**I1**) Anatomical structure of the base of shoot buds at the early developmental stage; (**J1**) Anatomical structure of the middle of shoot buds at the early developmental stage; (**K1**) Anatomical structure of the upper part of shoot buds at the early developmental stage; (**L1**) Anatomical structure of the top of shoot buds at the early developmental stage; (**I2~L2**) Fluorescence corresponding to (**I1~L1**).



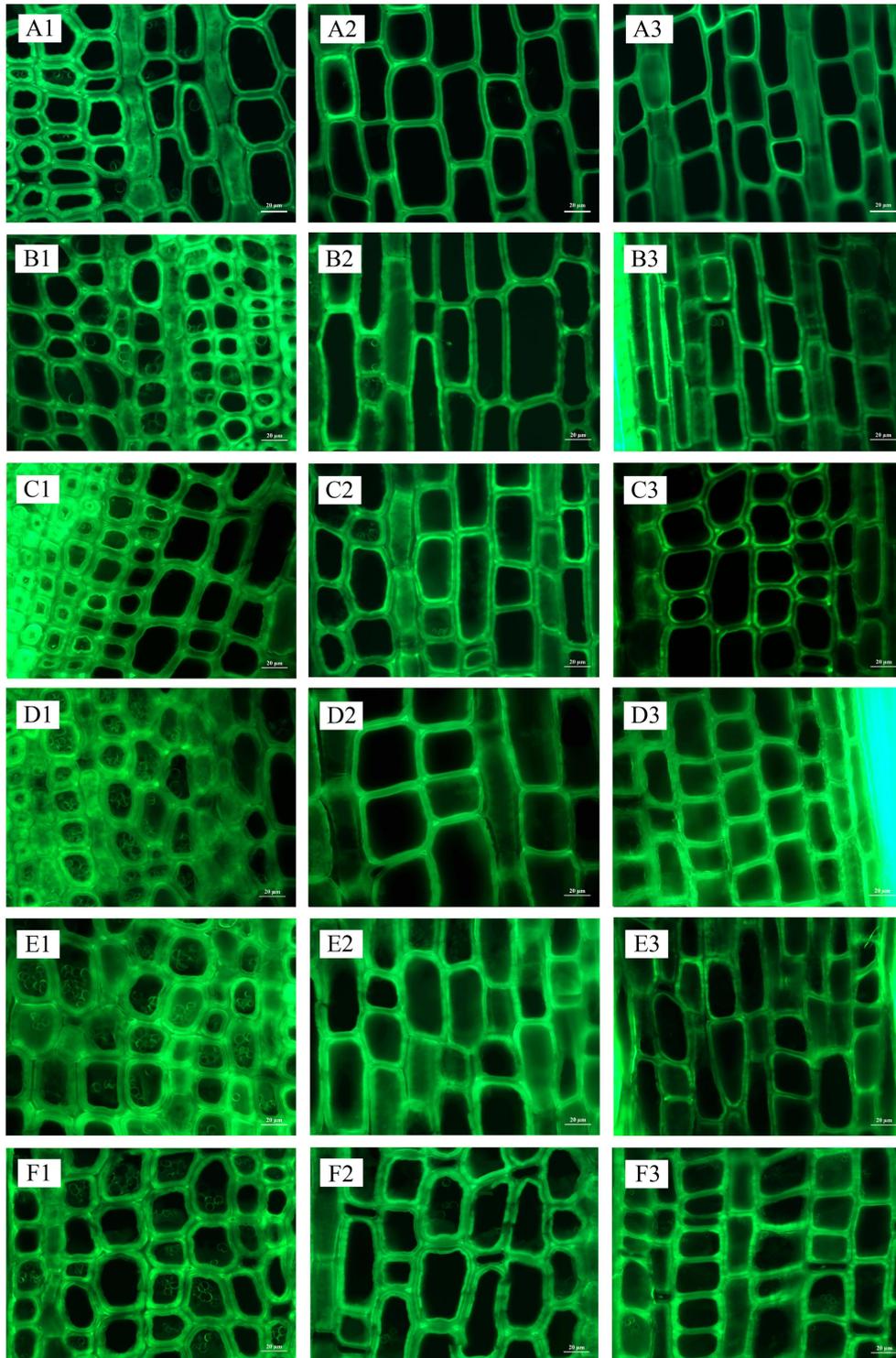
**Figure S2.** Anatomical structure and starch granules distribution of winter shoot buds during middle developmental stage, late developmental stage and mature stage. **(A1)**: Anatomical structure of the base of shoot buds during the middle developmental stage; **(B1)** Anatomical structure of the middle of shoot buds at the middle developmental stage; **(C1)** Anatomical structure of the upper part of shoot buds at the middle developmental stage; **(D1)** Anatomical structure of the top of shoot buds at the middle developmental stage; **(A2~D2)** Fluorescence corresponding to (A1~D1); **(E1)** Anatomical structure of the base of shoot buds at the late developmental stage; **(F1)** Anatomical structure of the middle of shoot buds at the late developmental stage; **(G1)** Anatomical structure of the upper part of shoot buds at the late developmental stage; **(H1)** Anatomical structure of the top of shoot buds at the late developmental stage; **(E2~H2)** Fluorescence corresponding to (E1~H1); **(I1)** Anatomical structure of the base of shoot buds at the mature stage; **(J1)** Anatomical structure of the middle of shoot buds at the mature stage; **(K1)** Anatomical structure of the upper part of shoot buds at the mature stage; **(L1)** Anatomical structure of the top of shoot buds at the mature stage; **(I2~L2)** Fluorescence corresponding to (I1~L1).



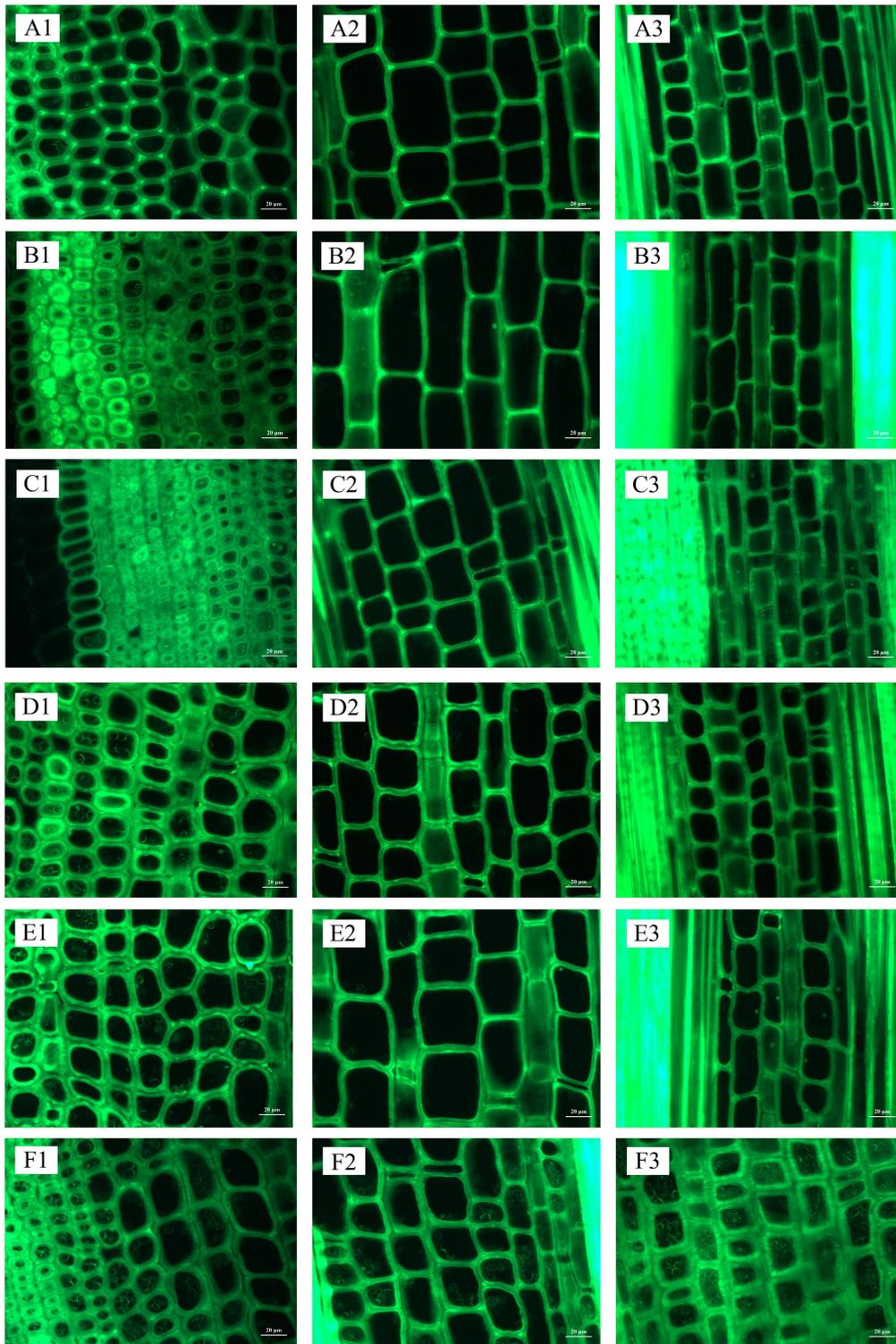
**Figure S3.** Distribution of starch granules in 1-2 years old bamboo culms in winter. (A1) The inner part of the base internode of 1-year-old culm; (A2) The middle part of the base internode of 1-year-old culm; (A3) The outer part of the base internode of 1-year-old culm; (B1) The inner part of the internode at breast height of 1-year-old culm; (B2) The middle part of the internode at breast height of 1-year-old culm; (B3) The outer part of the internode at breast height of 1-year-old culm; (C1) The inner part of the upper internode of 1-year-old culm; (C2) The middle part of the upper internode of 1-year-old culm; (C3) The outer part of the upper internode of 1-year-old culm; (D1) The inner part of the base internode of 2-year-old culm; (D2) The middle part of the base internode of 2-year-old culm; (D3) The outer part of the base internode of 2-year-old culm; (E1) The inner part of the internode at breast height of 2-year-old culm; (E2) The middle part of the internode at breast height of 2-year-old culm; (E3) The outer part of the internode at breast height of 2-year-old culm; (F1) The inner part of the upper internode of 2-year-old culm; (F2) The middle part of the upper internode of 2-year-old culm; (F3) The outer part of the upper internode of 2-year-old culm. SG, Starch granules.



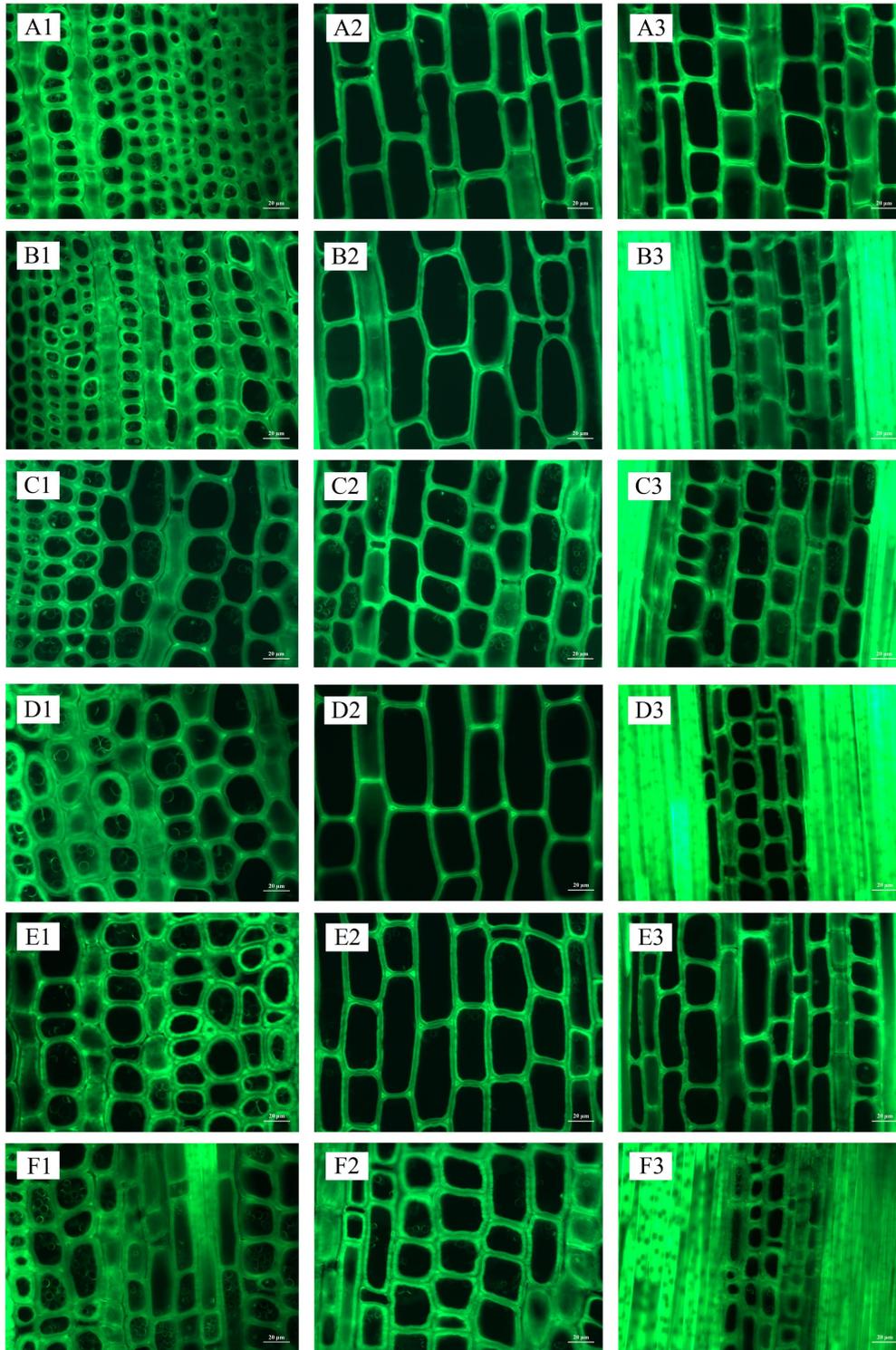
**Figure S4.** Distribution of starch granules in 3-4 years old bamboo culms in winter. (A1) The inner part of the base internode of 3-year-old culm; (A2) The middle part of the base internode of 3-year-old culm; (A3) The outer part of the base internode of 3-year-old culm; (B1) The inner part of the internode at breast height of 3-year-old culm; (B2) The middle part of the internode at breast height of 3-year-old culm; (B3) The outer part of the internode at breast height of 3-year-old culm; (C1) The inner part of the upper internode of 3-year-old culm; (C2) The middle part of the upper internode of 3-year-old culm; (C3) The outer part of the upper internode of 3-year-old culm; (D1) The inner part of the base internode of 4-year-old culm; (D2) The middle part of the base internode of 4-year-old culm; (D3) The outer part of the base internode of 4-year-old culm; (E1) The inner part of the internode at breast height of 4-year-old culm; (E2) The middle part of the internode at breast height of 4-year-old culm; (E3) The outer part of the internode at breast height of 4-year-old culm; (F1) The inner part of the upper internode of 4-year-old culm; (F2) The middle part of the upper internode of 4-year-old culm; (F3) The outer part of the upper internode of 4-year-old culm. SG, Starch granules.



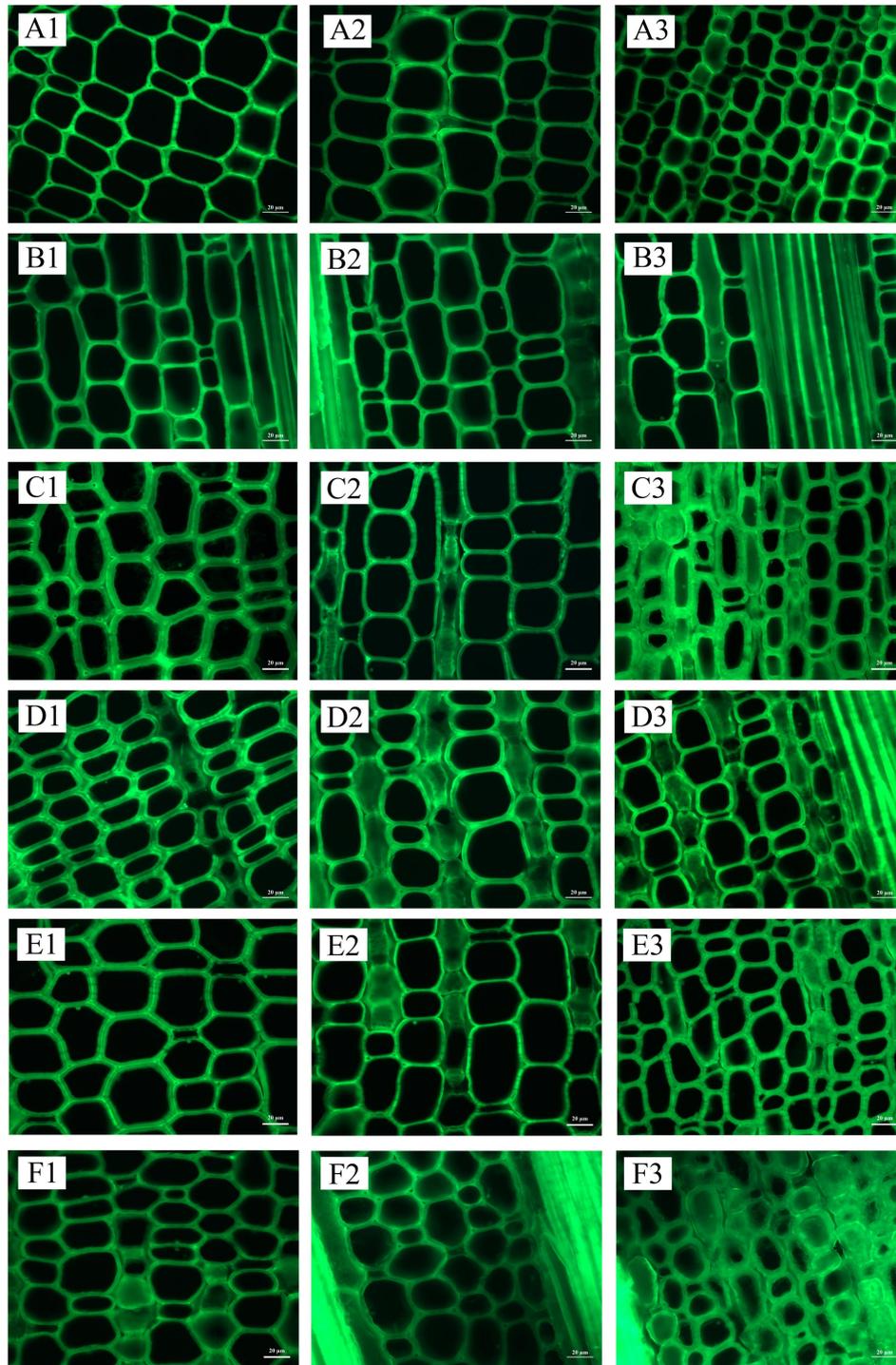
**Figure S5.** Distribution of starch granules in 5-year-old and 7-year-old bamboo culms in winter. (A1) The inner part of the base internode of 5-year-old culm; (A2) The middle part of the base internode of 5-year-old culm; (A3) The outer part of the base internode of 5-year-old culm; (B1) The inner part of the internode at breast height of 5-year-old culm; (B2) The middle part of the internode at breast height of 5-year-old culm; (B3) The outer part of the internode at breast height of 5-year-old culm; (C1) The inner part of the upper internode of 5-year-old culm; (C2) The middle part of the upper internode of 5-year-old culm; (C3) The outer part of the upper internode of 5-year-old culm; (D1) The inner part of the base internode of 7-year-old culm; (D2) The middle part of the base internode of 7-year-old culm; (D3) The outer part of the base internode of 7-year-old culm; (E1) The inner part of the internode at breast height of 7-year-old culm; (E2) The middle part of the internode at breast height of 7-year-old culm; (E3) The outer part of the internode at breast height of 7-year-old culm; (F1) The inner part of the upper internode of 7-year-old culm; (F2) The middle part of the upper internode of 7-year-old culm; (F3) The outer part of the upper internode of 7-year-old culm.



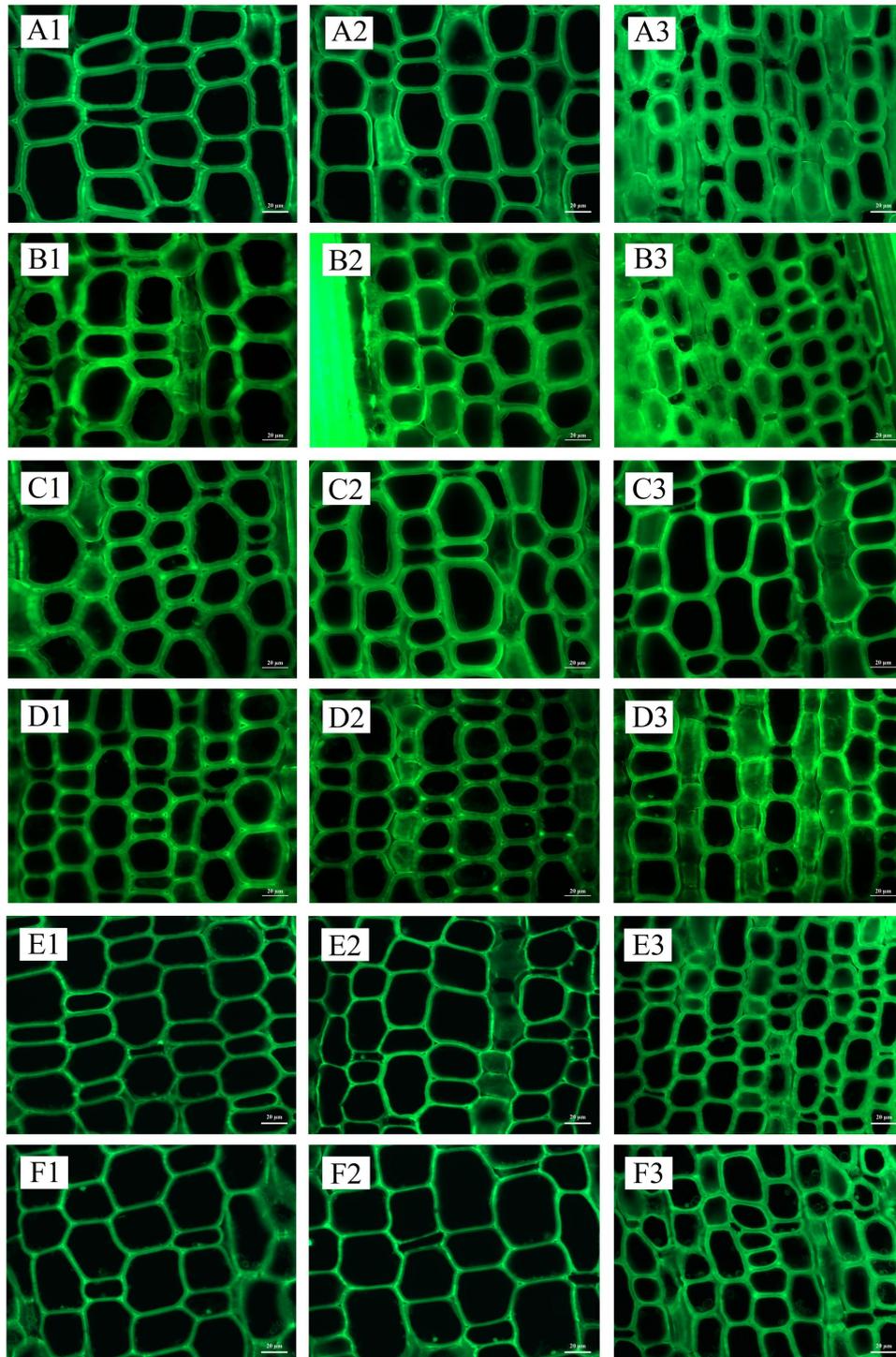
**Figure S6.** Distribution of starch granules in 1-year-old and 3-year-old bamboo culms in spring. **(A1)** The inner part of the base internode of 1-year-old culm; **(A2)** The middle part of the base internode of 1-year-old culm; **(A3)** The outer part of the base internode of 1-year-old culm; **(B1)** The inner part of the internode at breast height of 1-year-old culm; **(B2)** The middle part of the internode at breast height of 1-year-old culm; **(B3)** The outer part of the internode at breast height of 1-year-old culm; **(C1)** The inner part of the upper internode of 1-year-old culm; **(C2)** The middle part of the upper internode of 1-year-old culm; **(C3)** The outer part of the upper internode of 1-year-old culm; **(D1)** The inner part of the base internode of 3-year-old culm; **(D2)** The middle part of the base internode of 3-year-old culm; **(D3)** The outer part of the base internode of 3-year-old culm; **(E1)** The inner part of the internode at breast height of 3-year-old culm; **(E2)** The middle part of the internode at breast height of 3-year-old culm; **(E3)** The outer part of the internode at breast height of 3-year-old culm; **(F1)** The inner part of the upper internode of 3-year-old culm; **(F2)** The middle part of the upper internode of 3-year-old culm; **(F3)** The outer part of the upper internode of 3-year-old culm.



**Figure S7.** Distribution of starch granules in 5-year-old and 7-year-old bamboo culms in spring. **(A1)** The inner part of the base internode of 5-year-old culm; **(A2)** The middle part of the base internode of 5-year-old culm; **(A3)** The outer part of the base internode of 5-year-old culm; **(B1)** The inner part of the internode at breast height of 5-year-old culm; **(B2)** The middle part of the internode at breast height of 5-year-old culm; **(B3)** The outer part of the internode at breast height of 5-year-old culm; **(C1)** The inner part of the upper internode of 5-year-old culm; **(C2)** The middle part of the upper internode of 5-year-old culm; **(C3)** The outer part of the upper internode of 5-year-old culm; **(D1)** The inner part of the base internode of 7-year-old culm; **(D2)** The middle part of the base internode of 7-year-old culm; **(D3)** The outer part of the base internode of 7-year-old culm; **(E1)** The inner part of the internode at breast height of 7-year-old culm; **(E2)** The middle part of the internode at breast height of 7-year-old culm; **(E3)** The outer part of the internode at breast height of 7-year-old culm; **(F1)** The inner part of the upper internode of 7-year-old culm; **(F2)** The middle part of the upper internode of 7-year-old culm; **(F3)** The outer part of the upper internode of 7-year-old culm.



**Figure S8.** Distribution of starch granules of the rhizome connected with 1-3 years old bamboo culms in winter. (A1) The inner part of the coming rhizome connected with 1-year-old culm; (A2) The middle part of the coming rhizome connected with 1-year-old culm; (A3) The outer part of the coming rhizome connected with 1-year-old culm; (B1) The inner part of the going rhizome connected with 1-year-old culm; (B2) The middle part of the going rhizome connected with 1-year-old culm; (B3) The outer part of the going rhizome connected with 1-year-old culm; (C1) The inner part of the coming rhizome connected with 2-year-old culm; (C2) The middle part of the coming rhizome connected with 2-year-old culm; (C3) The outer part of the coming rhizome connected with 2-year-old culm; (D1) The inner part of the going rhizome connected with 2-year-old culm; (D2) The middle part of the going rhizome connected with 2-year-old culm; (D3) The outer part of the going rhizome connected with 2-year-old culm; (E1) The inner part of the coming rhizome connected with 3-year-old culm; (E2) The middle part of the coming rhizome connected with 3-year-old culm; (E3) The outer part of the coming rhizome connected with 3-year-old culm; (F1) The inner part of the going rhizome connected with 3-year-old culm; (F2) The middle part of the going rhizome connected with 3-year-old culm; (F3) The outer part of the going rhizome connected with 3-year-old culm.



**Figure S9.** Distribution of starch granules of the rhizome connected with 4, 5, and 7-year-old bamboo culms in winter. (A1) The inner part of the coming rhizome connected with 4-year-old culm; (A2) The middle part of the coming rhizome connected with 4-year-old culm; (A3) The outer part of the coming rhizome connected with 4-year-old culm; (B1) The inner part of the going rhizome connected with 4-year-old culm; (B2) The middle part of the going rhizome connected with 4-year-old culm; (B3) The outer part of the going rhizome connected with 4-year-old culm; (C1) The inner part of the coming rhizome connected with 5-year-old culm; (C2) The middle part of the coming rhizome connected with 5-year-old culm; (C3) The outer part of the coming rhizome connected with 5-year-old culm; (D1) The inner part of the going rhizome connected with 5-year-old culm; (D2) The middle part of the going rhizome connected with 5-year-old culm; (D3) The outer part of the going rhizome connected with 5-year-old culm; (E1) The inner part of the coming rhizome connected with 7-year-old culm; (E2) The middle part of the coming rhizome connected with 7-year-old culm; (E3) The outer part of the coming rhizome connected with 7-year-old culm; (F1) The inner part of the going rhizome connected with 7-year-old culm; (F2) The middle part of the going rhizome connected with 7-year-old culm; (F3) The outer part of the going rhizome connected with 7-year-old culm.