Supplementary data

Supplementary Fig. 1. Effect of hypoxic stress on Ca\(^{2+}\) distribution in root elongation and mature zone in *Arabidopsis* wild-type (Col-0), *gork1-1* and *rbohD*. Representative images of root elongation and mature zone in Col-0 (A), *gork1-1* (B) and *rbohD* (C) under control and hypoxic treatment. Ten-day-old seedlings was stained with Calcium Green-5N and visualised with confocal imaging system. One out of nine typical images is shown for each line. Scale bar = 50 µm.
Supplementary Fig. 2. Effect of hypoxic stress on superoxide distribution in root elongation and mature zone in Arabidopsis wild-type (Col-0), gork1-1 and rbohD. Representative images of root elongation and mature zone in Col-0 (A), gork1-1 (B) and rbohD (C) under control and hypoxic treatment are shown. Ten-day-old seedlings was stained with superoxide indicator (DHE) and visualised with confocal imaging system. One out of nine typical images is shown for each line. Scale bar = 50 µm.
**Supplementary Fig. 3.** Effect of hypoxic stress on H$_2$O$_2$ distribution in root elongation and mature zone in *Arabidopsis* wild-type (Col-0), *gork1-1* and *rbohD*. Representative images of root elongation and mature zone in Col-0 (A), *gork1-1* (B) and *rbohD* (C) under control and hypoxic treatment. Ten-day-old seedlings was stained with H$_2$O$_2$ indicator DCF and visualised with confocal imaging system. One out of nine typical images is shown for each line. Scale bar = 50 µm.