***Electronic Supplementary Material***

**Using seed respiration as a tool for calculating optimal soaking times for ‘on-farm’ seed priming of barley (*Hordeum vulgare*)**

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The electronic supplementary material includes 2 files:

ESM1: Spreadsheet containing raw data from measurements during priming, and seed performance results from germination and desiccation test.

ESM2: Spreadsheet containing seedling performance results from a series of seedling vigour tests.