***Electronic Supplementary Material***

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

Javier Carrillo-Rechea\*, Adrian C. Newtonb, Richard S. Quilliama

aBiological and Environmental Sciences, Faculty of Natural Sciences, University of Stirling, Stirling, FK9 4LA, UK

bEcological Sciences, The James Hutton Institute, DD2 5DA, Dundee, UK

\*Corresponding author: Javier Carrillo-Reche,

Email: [javier.carrilloreche1@stir.ac.uk](mailto:javier.carrilloreche1@stir.ac.uk)

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.