

PROFESSOR R. H. ELLIS
PUBLICATIONS

Publications by Professor R H Ellis
University of Reading

1. Ellis, R.H. and Roberts, E.H., 1977.

47. Ellis, R.H. and Whitehead, J., 1987. Open, truncated and triangular sequential seed testing procedures. *Seed Science and Technology*, 15, 1-17.
48. Rao, N.K., Roberts, E.H. and Ellis, R.H., 1987a. Loss of seed viability in lettuce seeds and the accumulation of chromosome damage under different storage conditions. *Annals of Botany*, 60, 85-96.
49. Rao, N.K., Roberts, E.H. and Ellis, R.H., 1987b. The influence of pre and post-storage hydration treatments on chromosomal aberrations, seedling abnormalities, and viability of lettuce seeds. *Annals of Botany*, 60, 97-108.
50. Roberts, E.H., Murdoch, A.J. and Ellis, R.H., 1987. The interaction of environmental factors on seed dormancy. *Journal of Applied Ecology*, 24, 1167-1177.

Publications by Professor R H Ellis
implications for screening germplasm. In *4th EUCARPIA Allium Symposium*

113. Ellis, R.H., Hong, T.D. and Roberts, E.H., 1992. The low-moisture-content limit to the negative logarithmic relation between seed longevity and moisture content in three subspecies of rice. *Annals of Botany*, 69, 53-58.
114. Ellis, R.H. and Pieta-Filho, C., 1992. The development of seed quality in spring and winter cultivars of barley and wheat. *Seed Science Research*, 2, 9-15.
115. Ellis, R.H., Summerfield, R.J., Edmeades, G.O. and Roberts, E.H., 1992a. Photoperiod, leaf number, and interval from tassel initiation to emergence in diverse cultivars of maize. *Crop Science*, 32, 398-403.
116. Ellis, R.H., Summerfield, R.J., Edmeades, G.O. and Roberts, E.H., 1992b. Photoperiod, temperature and the interval from sowing to tassel initiation in diverse cultivars of maize. *Crop Science*, 32, 1225-1232.
117. Hong, T.D. and Ellis, R.H., 1992a. Optimum air

130. Ellis, R.H., Demir, I. and Pioto Filho, C., 1993. Changes in seed quality during seed development in contrasting crops. In *Fourth International Workshop on Seeds, Basic and Applied Aspects of Seed Biology, Volume 3* (eds. P. Côme and F. Corbineau), pp. 897-904, ASFIS, Paris.
131. Ellis, R.H., Hong, T.D. and Jackson, M.T., 1993. Seed production envir.

144. Ellis, R.H. and Barrett, S. 1994. Alternating temperatures and rate of seed germination in lentil. *Annals of Botany*, 74, 519-524.
145. Ellis, R.H. and Hong, T.D., 1994. Desiccation tolerance and potential longevity of developing seeds of rice (*Oryza sativa* L.). *Annals of Botany*, 73, 501-506.
146. Ellis, R.H., Hong, T.D., Astley, D. and Kraak, H. L., 1994. Medium-term storage of dry and ultra-dry seeds of onion at ambient and sub-zero temperatures. *Onion Newsletter for the Tropics*, 6, 56-58.
147. Ellis, R.H., Lawn, R.J., Summerfield, R.J., Qi, A., Roberts, E.H., Chay, P.M., Brouwer, J.B., Rose, J.L. and Yeates, S.J., 1994. Towards the reliable prediction of time to flowering in six annual crops. III. Cowpea (*Vigna unguiculata*). *Experimental Agriculture*, 30, 17-29.
148. Ellis, R.H., Lawn, R.J., Summerfield, R.J., Qi, A., Roberts, E.H., Chay, P.M., Brouwer, J.B., Rose, J.L., Yeates, S.J. and Sandover, S., 1994a. Towards the reliable prediction of time to flowering in six annual crops. IV. Cultivated and wild mung bean. *Experimental Agriculture*, 30, 31-43.
149. Ellis, R.H., Lawn, R.J., Summerfield, R.J., Qi, A., Roberts, E.H., Chay, P.M., Brouwer, J.B., Rose, J.L., Yeates, S.J., and Sandover, S., 1994b. Towards the reliable prediction
lc2

157. Wheeler, T.R. and Ellis, R.H., 1994. Effects of seed quality and temperature on pre-emergence root growth of seedlings on onion (

- development of lentil adapted to winter sowing in the highlands of West-Asia. *Agricultural and Forest Meteorology*, 74: 251-263.
172. Keatinge, J.D.H., Qi, A., Kusmenoglu, I., Ellis, R.H., Summerfield, R.J., Erskine, W. and Beniwal, S.P.S., 1995. Selecting lentil genotypes for winter-sowing in the Turkish highlands. In *Improving Production and Utilisation of Grain Legumes*, pp. 142-143. European Association for Grain Legume Research, Paris.
 173. Lawn, R.J., Summerfield, R.J., Ellis, R.H., Qi, A., Roberts, E.H., Chay, P.M. Brouwer, J.B., Rose, J.L. and Yeates, S.J., 1995. Towards the reliable prediction of time to flowering in six annual crops. VI. Applications in crop improvement. *Experimental Agriculture*, 31, 89-108.
 174. Summerfield, R.J., Erskine, W., Ellis, R.H. and Keatinge, J.D.H., 1995. Prediction of photothermal flowering responses in a world lentil (*Lens culinaris*) collection. In *Improving Production and Utilisation of Grain Legumes*, pp. 146-147. European Association for Grain Legume Research, Paris.
 175. Tester, R.F., Morrison, W.R., Ellis, R.H., Piggott, J.R., Batts, G.R., Wheeler, T.R., Morison, J.I.L., Hadley, P. and Ledward, D.A., 1995. Effects of elevated growth temperature and carbon dioxide levels on some physicochemical properties of wheat starch. *Journal of Cereal Science*, 22, 63-71.
 176. Wheeler, T.R., Daymond, A.J., Ellis, R.H., Hadley, P. and Morison, J.I.L., 1995. Experiments on the effects of increased temperature and/or elevated concentrations of carbon dioxide on crops: field tunnel experiments on onion. In *Climate Change and Agriculture in Europe: Assessment of Impacts and Adaptations* (eds. P.A. Harrison, R.E. Butterfield and T.E. Downing), pp. 114-124. Environmental Change Unit, University of Oxford, Oxford.
 177. Wheeler, T.R., Ellis, R.H., Hadley, P. and Morison, J.I.L., 1995. Effects of CO₂, temperature and their interaction on the growth, development and yield of cauliflower (*Brassica oleracea* L. *botrytis*). *Scientia Horticulturae*, 60, 181-197.
 178. Wheeler, T.R., Oleson, J.E., Daymond, A.J., Ellis, R.H., Hadley, P. and Morison, J.I.L., 1995. Modelling the effects of climate change and climatic variability on crops at the site scale: Effects on onion. In *Climate Change and Agriculture in Europe: Assessment of Impacts and Adaptations* (eds. P.A. Harrison, R.E. Butterfield and T.E. Downing), pp. 196-206. Environmental Change Unit, University of Oxford, Oxford.
 179. Batts, G.R., Wheeler, T.R., Morison, J.I.L., Ellis, R.H. and Hadley, P., 1996. Developmental and tillering of responses of winter wheat (*Triticum aestivum*) crops to CO₂ and temperature. *Journal of Agricultural Science, Cambridge*, 127, 23-35.
 180. Craufurd, P.Q., Ellis, R.H., Summerfield, R.J. and Menin, L. 1996a. Development in cowpea (*Vigna unguiculata*). I. The influence of temperature on seed germination and seedling emergence. *Experimental Agriculture*, 32, 1-12.
 181. Craufurd, P.Q., Qi, A., Ellis, R.H., Summerfield, R.J. and Roberts E.H., 1996b. Development in cowpea (*Vigna unguiculata*). II. Effects of temperature and saturation deficit on time to flowering in photoperiod-insensitive genotypes. *Experimental Agriculture*, 32, 13-28.
 182. Craufurd, P.Q., Roberts, E.H., Ellis, R.H. and Summerfield, R.J., 1996. A stability anal
 - 182.

197. Wheeler, T.R., Batts, G.R., Ellis, R.H., Hadley, P. and Morison, J.I.L., 1996. Growth and yield of winter wheat (*Triticum aestivum*) crops in response to CO₂ and temperature. *Journal of Agricultural Science, Cambridge*, 127, 37-48.
198. Wheeler, T.R., Ellis, R.H., Hadley, P., Morison, J.I.L., Batts, G.R. and Daymond, A.J., 1996. Assessing the effects of climate change on field crop production. *Aspects of Applied Biology*, 45, 49-54.
199. Wheeler, T.R., Hong, T.D., Ellis, R.H., Batts, G.R., Morison, J.I.L. and Hadley, P., 1996. The duration and rate of grain growth, and harvest index, of wheat (*Triticum aestivum* L.) in response to temperature and CO₂. *Journal of Experimental Botany*, 47, 623-630.
200. Yin, X., Kropff, M.J. and Ellis, R.H., 1996. Rice flowering in response to diurnal temperature amplitude. *Field Crops Research*, 48, 1-10.
201. Batts, G.R., Morison, J.I.L., Ellis, R.H., Hadley, P. and Wheeler, T.R., 1997. Effects of CO₂ and temperature on growth and yield of crops of winter wheat over four seasons. *European Journal of Agronomy*, 7, 43-52.
202. Craufurd, P.Q., Summerfield, R.J., Ellis, R.H. and Roberts, E.H., 1997. Photoperiod, temperature, and the growth and development of cowpea. In *Advances in Cowpea Research* (eds B.B. Singh, D.R. Mohan Raj, K.E. Dashiell and L.E.N. Jackai) pp.75-86. IITA, Ibadan and JIRCAS, Tsukuba.
203. Daymond, A.J., Wheeler, T.R., Hadley, P., Ellis, R.H. and Morison, J.I.L., 1997. The growth, development and yield of onion (*Allium cepa* L.) in response to temperature and CO₂. *Journal of Horticultural Science*, 72, 135-145.
204. Ellis, R.H., 1997. Determining appropriate seed sowing rates. In *Precision Agriculture '97, Volume I. Spatial Variability in Soil and Crop* (ed. J.V. Stafford), pp. 281-288. BIOS Scientific Publishers Ltd, Oxford.
205. Ellis, R.H., Black, M., Murdoch, A.J. and Hong, T.D. (Eds). 1997. *Basic and Applied Aspects of Seed Biology*, 823 pp. Kluwer Academic Publishers, Dordrecht.
206. Ellis, R.H., Qi, A., Craufurd, P.Q., Summerfield, R.J. and Roberts, E.H., 1997. Effects of photoperiod, temperature and asynchrony between thermoperiod and photoperiod on development to panicle initiation in sorghum. *Annals of Botany*, 79, 169-178.
207. Ellis, R.H. and Salahi, M., 1997. Optimising inputs for contrasting cultivars: Quantifying the effects of plant population density and nitrogen fertiliser on the yield of four cultivars of spring wheat. *Aspects of Applied Biology*, 50, 139-146.
208. Ellis, R.H., Summerfield, R.J., Qi, A. and Roberts, E.H., 1997. Adaptation of soybean: Implications for crop improvement of flowering responses to photoperiod and temperature. In

Elinnalse.7.

212. Hong, T.D., Ellis, R.H. and Moore, D., 1997. Development of a model to predict the effect of temperature and moisture on fungal spore longevity. *Annals of Botany*, 79, 121-128.
213. Jones, S.K., Ellis, R.H. and Gosling, P.G., 1997. Loss and induction of conditional dormancy in seeds of Sitka spruce maintained moist at different temperatures. *Seed Science Research*, 7, 351-358.
214. Jones, S.K., Gosling, P.G. and Ellis, R.H., 1997. Dormancy in Sitka spruce seeds. In *Basic and Applied Aspects of Seed Biology* (eds R.H. Ellis, M. Black, A.J. Murdoch and T.D. Hong), pp. 235-244. Kluwer Academic Publishers, Dordrecht.
215. Keatinge, J.D.H., Wheeler, T.R., Shah, P.B., Subedi, M., Musitwa, F., Caspedes, E., Qi, A., Ellis, R.H. and Summerfield, R.J., 1997. *Potential For And Contraints To The Production Of Multi-Purpose Cover Crop Legumes In Hillside Environments In Key Department For International Development (DFID) Target Countries*, 46 pp. Department of Agriculture, The University of Reading, Reading.
216. Lipman, E., Ellis, R.H. and Gass, T. (Eds), 1997. *Maize Genetic Resources in Europe*, 57 pp. International Plant Genetic Resources Institute, Rome.
217. Madden, A.D., Ellis, R.H. and Heath, S.B., 1997. SEED: a computer-assisted learning package on seed longevity. In *Basic and Applied Aspects of Seed Biology* (eds R.H. Ellis, M. Black, A.J. Murdoch and T.D. Hong), pp. 651-655. Kluwer Academic Publishers, Dordrecht.
218. Mwashia, A.J., Ellis, R.H. and Hong, T.D., 1997. The effect of desiccation on the subsequent survival of seeds of cashew (*Anacardium occidentale* L.) *Seed Science and Technology*, 25, 655-663.

227. Wheeler, T.R., Keatinge, J.D.H., Aiming, Q., Ellis, R.H. and Summerfield, R.J., 1997. Adaptación de leguminosas de cobertura al medio ambiente en laderas en Bolivia. In, *Estrategias para practicas mejoradas de conservacion de suelo y agua en los sistemas de produccion de laderas en valles Andinos de Bolivia*, (ed B.G. Sims), pp. 157-159. Silsoe Research Institute Publication IDG/97/20.
228. Wheeler, T.R., Keatinge, J.D.H., Ellis, R.H., Aiming, Q. and Summerfield, R.J., 1997b. Selecting legume cover crops to counter soil erosion and losses in soil fertility in hillside farming systems. *Agroforestry Forum*, 8 (4), 30-34.
229. Asumadu, H., Summerfield, R.J., Ellis, R.H. and Qi, A., 1998. Variation in the durations of the photoperiod-

255.

Publications by Professor R H Ellis

283. Dourado, A., Hong, T.D. and Ellis, R.H., 2001. Breaking dormancy in *Daphne* seeds. In *The Smaller Daphnes* (ed. C. Grey-Wilson), pp. 12-14. Royal Horticultural Society, Wisley, Surrey.
284. Ellis, R.H., Gooding, M.J., Shewry, P.R., Tatham, A.S. and Schofield, D.R., 2001. Moisture stress during wheat grain development. *Aspects of Applied Biology*, 64, 133-134.
285. Feeney, K., Tatham, A.S., Wright, R., Arnold, G., Shewry, P.R., Gooding, M.J., Ellis, R.H., Wellner, N. and Belton, P.S., 2001. Effects of water availability and growth temperature during grain filling on protein assembly and properties in wheat. *Aspects of Applied Biology*, 64, 135-136.
286. Gooding, M.J., Pinyosinwat, A. and Ellis, R.H., 2001. The response of wheat grain nitrogen concentration to plant population density. *Aspects of Applied Biology*, 64, 157-162.
287. Hong, T.D., Gunn, J., Ellis, R.H., Jenkins, N.E. and Moore, D., 2001. The effect of storage environment on the longevity of conidia of *Beauveria bassiana*. *Mycological Research*, 105, 597-602.
288. Hosseini, N.M., Ellis, R.H. and Yazdi-Samadi, B., 2001. Effects of plant population density on yield and yield components of eight isolines of cv. Clark (*Glycine max* L.). *Journal of Agricultural Science and Technology*, 3, 131-139.
289. Hung, L.Q., Hong, T.D. and Ellis, R.H., 2001. Constant, fluctuating and effective temperature and seed longevity: a tomato (*Lycopersicon esculentum* Mill.) exemplar. *Annals of Botany*, 88, 465-470.
290. Mann, G., van der Graaf, J., Schofield, J.P., Gooding, M.J., Ellis, R.H. and Greenwell, P. 2001. Functional and biochemical effects on wheat flour of water availability and growth temperature during grain filling. *Aspects of Applied Biology*, 64, 137-138.
291. Ojo, D.K., Ellis, R.H. and Ajala, M.O., 2001. Effect of time of harvest on seed germination and capacity for seedling emergence in tropical soybean genotypes. *Moor Journal of Agricultural Research*, 2, 8-14.
292. Oliver, M.A., Frogbrook, Z.L., Ellis, R.H., Salahi, M. and Gooding, M.J., 2001. Exploring the spatial variation in wheat quality using geostatistics. *Aspects of Applied Biology*, 64, 207-8.
293. Frogbrook, Z.L., Oliver, M.A., Salahi, M. and Ellis, R.H., 2002. Exploring the spatial relations between cereal yield and soil chemical properties and the implications for sampling. *Soil Use and Management*, 18, 1-9.
294. Gooding, M.J., Pinyosinwat A. and Ellis, R.H., 2002. Responses of wheat grain yield and quality to seed rate. *Journal of Agricultural Science*, 138, 317-331.
295. Hong, T.D., Ellis, R.H., 2002. Optimum moisture status for the exceptional survival of seeds of arabica coffee (*Coffea arabica* L.) in medium

- 298. Ellis, R.H., 2003. Temperate and tropical tree seed physiology and the economy of nature. *Seed Technology*, 25, 69-77.
- 299. Ellis, R.H., 2003.

312. Kindred, D.R., Gooding, M.J. and Ellis, R.H., 2005. Nitrogen fertilizer and seed rate effects on Hagberg falling number of wheat hybrids and their parents are associated with alpha-amylase activity, grain cavity size and dormancy. *Journal of the Science of Food and Agriculture*, 85, 727-742.
313. Léon-Lobos, P. and Ellis, R.H., 2005. Seed survival in Chilean *Nothofagus* in response to desiccation and storage. *Seed Science Research*, 15, 113–123.
314. Lima, M. de J. V. Jr. and Ellis, R.H., 2005. Seed survival of four tropical tree species in response to environment. *Seed Science and Technology*, 33, 157-166.
315. Lima, M. de J. V. Jr., Ellis, R.H., Hong, T.D. and Ferraz, I.D.K., 2005. Drying method influences the development of germinability, dessication tolerance and subsequent longevity of immature seeds of sumaúma (*Ceiba pentandra* L. Gaertn.

[e (of 4) i m t e s] 1 0 v e 0 8 . 1 7 5 p a n d < 9 5 2 2 E M C (3) T i B o d y 0 6 < M C I D (6 6 > 5 B I 3 1 . c 0 4 0 1 2 T w 0 . 2 9 2 T w 0 . 2

328. Butler L.H., Hay, F.R., Ellis, R.H., Smith, R.D. and Murray, T.B., 2009. Priming and re-drying improve the survival of mature seeds of *Digitalis purpurea* during storage. *Annals of Botany*, 103, 1261–1270. a
329. Ellis, R. H., 2009. Seed quality development. In *Seed Production and Treatment in a Changing Environment* (ed. A.J. Biddle), pp. 11-16. BCPC, Alton, Hampshire.
330. Pérez-García, F., Gómez-Campo, C. and Ellis, R.H., 2009. Successful long-term ultra dry storage of seed of 15 species of Brassicaceae in a genebank: variation in ability to germinate over 40 years and dormancy. *Seed Science and Technology*, 37and

341.

Publications by Professor R H Ellis

