



## Prof Anthony Hall

### Bio

Professor Anthony Hall is the head of Plant Genomics at the Earlham institute in the UK, previously he was the Holbrook Gaskell Chair of Botany at the University of Liverpool. He has published over 70 papers including Nature (3), Science(1) and PNAS(1), together with discipline specific journals, Plant Cell, Genome Biology and Molecular Systems Biology. His plant genomics group started in 2009, and has focused on using and developing next generation genetic approaches to address key questions in plant science. In 2010 he was awarded a senior BBSRC research fellowship entitled “Developing Next Generation Genetic Tools for Wheat”. To date he has played a leading role in generating the first draft wheat genome(s) (Brenchley *et al.*, Nature 2012, Walkowiak *et al.* Nature 2020) and epigenome (Gardiner *et al.* Genome Biology 2015). He led an international consortium to develop a wheat exome capture and re-sequencing platform in collaboration with NimbleGen (Winfield *et al.* 2012, Allen *et al.* 2011, Jordan *et al.* 2015). His group have developed novel strategies for the identification of EMS induced point mutations in *Arabidopsis* using high throughput sequencing (Ashelford *et al.* Genome biology 2011) and extended these to wheat (Gardiner *et al.* Plant Journal 2014, Gardiner *et al.* Plant Journal 2016).

He has worked as an *Arabidopsis* molecular geneticist for 25 years, focusing on the field of plant circadian biology. His groups work has provided key insights into the molecular basis for temperature compensation of the *Arabidopsis* circadian oscillator (Gould *et al.* Plant Cell 2006), this has been expanded to include a first temperature compensated mathematical model of the clock, identifying an interaction between light and temperature in the control of period (Gould *et al.* 2012). His more recent work in collaboration with James Locke at the Sainsbury Laboratory Cambridge has used experiment and mathematical modelling approach to investigate the clock at the single cell level in a multi-cellular context.