From the Editor……

A happy Christmas and scientifically productive New Year to all our readers

Kevin

CHRISTMAS FUDDLE IN THE DIVISION

12.30 – 2pm on Thursday 14th December 2017

Come along to Plant Science Foyer
To share a lunch with one another
Just bring a plate of food to “The Do”
The intention is for all to share it with you
Just like last year and if not sure what to bring
Bring Food of your choice – bring anything!!!

RECENT SUCCESSFUL PhD STUDENTS IN THE PLANT AND CROP SCIENCES DIVISION


Nurniwalis Abdul Wahab - supervisors Festo Massawe and Jerry Roberts. Thesis entitled “Physiological, biochemical and molecular analyses of fruit development in oil palm (Elaeis guineensis Jacq.)”


Adeelah Alvi,– supervisor Matt Dickinson. Thesis entitled “Characterising populations of Puccinia striiformis f. sp. tritici (Pst) using molecular markers”.


Paul Waldron – supervisors Greg Tucker, Ian King and Julie King. Thesis entitled “The generation of dual purpose wheat that is high yielding, adapted to climate change and provides straw that is specifically adapted for bio-refining.”
SOME RECENT PUBLICATIONS FROM
PLANT AND CROP SCIENCES STAFF
(in no particular order)

Liu, HR; Cao, XM; Liu, XH; Xin, R; Wang, JJ;
Gao, J; Wu, BP; Gao, LX; Xu, CJ; Zhang, B;
Grierson, D; Chen, KS (2017) UV-B irradiation
differentially regulates terpene synthases and
terpene content of peach. Plant Cell and
Environment 40: 2261-2275.

Pound, MP; Atkinson, JA; Townsend, AJ;
Wilson, MH; Griffiths, M; Jackson, AS;
Bulat, A; Tzimiropoulos, G; Wells, DM;
Murchie, EH; Pridmore, TP; French, AP (2017) Deep
machine learning provides state-of-the-art
performance in image-based plant

Chai, HH; Massawe, F; Mayes, S (2016)
Assessment of a segregating population for
the improvement of drought tolerance in
Bambara groundnut. (Onus, N; Currie, A
eds.) XXIX International Horticultural
Congress On Horticulture: Sustaining Lives,
Livelihoods And Landscapes (Ihc2014):
International Symposium On Plant Breeding
In Horticulture. Book Series: Acta
Horticulturae 1127: 339-345.

Subramanian, NK; White, PJ; Broadley, MR;
Ramsay, G (2017) Variation in tuber mineral
concentrations among accessions of
Solanum species held in the Commonwealth
Potato Collection. Genetic Resources and
Crop Evolution 64: 1927-1935.

Manzeke, MG; Mtambanengwe, F;
Nezomba, H; Watts, MJ; Broadley, MR;
Mapfumo, P (2017) Zinc fertilization
increases productivity and grain nutritional
quality of cowpea (Vigna unguiculata [L.]
Walp.) under integrated soil fertility
management. Field Crops Research 213:
231-244.

Yang et al.
Control of anther secondary thickening in
Arabidopsis
As recently published by
Yang, CY; Song, J; Ferguson, AC; Klisch, D;
Simpson, K; Mo, R; Taylor, B; Mitsuda, N;
Wilson, ZA (2017) Transcription factor
MYB26 is key to spatial specificity in anther
secondary thickening formation. Plant
Physiology 175: 333-350.
AND MORE RECENT PUBLICATIONS

Ge, H; Zhang, J; Zhang, YJ; Li, X; Yin, XR; Grierson, D; Chen, KS (2017) EjNAC3 transcriptionally regulates chilling-induced lignification of loquat fruit via physical interaction with an atypical CAD-like gene. Journal of Experimental Botany 68: 5129-5136.

Kenobi, K; Atkinson, JA; Wells, DM; Gaju, O; De Silva, JG; Foulkes, MJ; Dryden, IL; Wood, ATA; Bennett, MJ (2017) Linear discriminant analysis reveals differences in root architecture in wheat seedlings related to nitrogen uptake efficiency. Journal of Experimental Botany 68: 4969-4981.

Jeger, M; Bragard, C; Candresse, T; Chatzivassiliou, E; Dehnen-Schmutz, K; Gilioli, G; Gregoire, JC; Jaques Miret, JA; MacLeod, A; Navajas Navarro, M Niere, B; Parnell, S; Potting, R; Rafoss, T; Rossi, V; Urek, G; Van Bruggen, A; Van der Werf, W; West, J; Winter, S; Dickinson, M; Marzachi, C; Hollo, G; Caffier, D (2017) Pest categorisation of Palm lethal yellowing phytoplasmas. Group Authors: EFSA Panel Plant Health PLH. EFSA Journal 15: 10 Article Number: UNSP 5028.

Pest categorisation of Witches' broom disease of lime (Citrus aurantifolia) phytoplasma Jeger, M; Bragard, C; Candresse, T; Chatzivassiliou, E; Dehnen-Schmutz, K; Gilioli, G; Gregoire, JC; Jaques Miret, JA; MacLeod, A; Navarro, MN; Niere, B; Parnell, S; Potting, R; Rafoss, T; Rossi, V; Urek, G; Van Bruggen, A; Van der Werf, W; West, J; Winter, S; Dickinson, M; Marzachi, C; Hollo, G; Caffier, D (2017) Group Authors: EFSA Panel Plant Health PLH. EFSA Journal 15 Issue: 10 Article Number: UNSP 5027.


Tardieu, F; Cabrera-Bosquet, L; Pridmore, T; Bennett, M (2017) Plant phenomics, from sensors to knowledge. Current Biology 27: R770-R783.

NEW MASTERS STUDENTS IN THE PLANT AND CROP SCIENCES DIVISION

The new cohort of Masters students taking the Crop Improvement MSc, with Erik Murchie, Rumiana Ray and Mike Holdsworth.

Masters students from the new MSc in Biotechnology taking the plant science route, with Ranjan Swarup, Mike Holdsworth and Tim Robbins.
VIEW FROM THE SHED

Work on the new growth rooms in the South Lab Annex is scheduled to commence in January 2018. The last experiments in the existing growth rooms, will be ending before the Christmas break.

With Christmas approaching we will soon be requiring your holiday watering instructions if you wish for us to take care of your watering over the festive break we will need your instructions by the 12th of December. Please note there will be no watering on the 25th of December.

The Arabidopsis user group will hold a meeting on the 28th November to discuss issues affecting the Arabidopsis growing community. Please let your group’s representative know any issues you would like to raise.

The glasshouse team have recently been busy with two training courses. We are now qualified to use fogging equipment in the glasshouses which should allow us to disinfect glasshouses without the need for using a knapsack sprayer, hopefully speeding up the process.

Two more of the team also gained their fork lift truck licences, enabling us to move heavy objects around the campus more efficiently.

Finally we would like to wish you all a Merry Christmas and Happy New Year.

The Glasshouse Team

This Newsletter was edited entirely by Kevin Pyke, so any mistakes are Kevin’s fault. It is available online on the Plant and Crop Sciences web page at www.nottingham.ac.uk/biosciences/subject-areas/plantcrop/index.aspx

Contributions for the next issue by January 21st 2018 to be published January 22nd 2018.