

3rd Aberystwyth Bioinformatics Workshop - Weds 20th Jan 2016

IBERS 0.33 and posters in 0.31

Tea/Coffee/Biscuits will be in IBERS Bach

This is the provisional programme for the day. Comments and requests for additions to Martin Swain (mts11@aber.ac.uk) or Amanda Clare (afc@aber.ac.uk).

Sign up to attend at:

<https://docs.google.com/forms/d/1uEnX0RTzQaXkC5tEq0uUwAoxLkrpUEm53SleFFvPq60/viewform>

9:45	<i>Tea/coffee and biscuits. Chat and browse the posters in IBERS 0.31</i>
10:30 - 10:35	Welcome and info
10:35 - 11:20	Arwyn Edwards: >700 million years in <20 minutes? Multi-omic insights into contemporary consequences of a Pre-Cambrian cyanobacterial invasion of the cryosphere (20 mins) Tom Hitch: Investigation of the rumen virome (15 mins)
11:20 - 11:50	Lightning talks (assuming 5 mins plus questions unless specified): <ol style="list-style-type: none">1. Andre Soares: R, mothur and QIIME in 16S amplicon analysis2. Andrew Oliphant: Using transcriptomics to identify neuropeptides and receptors involved in the regulation of crustacean ecdysis (10 mins)3. Ben Thomas: Computational approaches to mining the rumen micro-biome for novel antimicrobials.
11:50-12:35	Martin Vickers: IBERS computing resources, tools and software (20 mins) Vasilis Lenis: Bioinformatics training (15 mins)
12:35 - 1:30	<i>Lunch. Chat / discuss / browse the posters in IBERS-0.31.</i>
1:30 - 2:45	Lizzy Donkin: Mining ecological databases: limitations and obstacles (20 mins) Sarah Palmer: Plant Breeding, and the potential and limitations for bioinformatics in commercial plant breeding programs (20 mins) Martin Swain: DISMISS: new software for MeDIP-Seq (20 mins)
2:45 - 3.05	Lightning talks (assuming 5 mins plus questions unless specified): <ol style="list-style-type: none">1. Richard Hill: Predicting community functions from marker gene studies (10 mins)

	2. Kim Kenobi: Metagenomics and networks in antimicrobial resistance (10 mins)
3:05- 3:35	<i>Tea/coffee and biscuits. Chat / discuss / browse the posters 0.31</i>
3.35 - 4:25	Stephen Chapman: Systems Biology analysis reveals how acetate metabolism can regulate photosynthesis and alter global metabolism for the model organism, <i>Chlamydomonas reinhardtii</i> (20 mins) Chris Davey: Index selection and genome-wide prediction of phenology and biomass in <i>Miscanthus</i> (20 mins)
4:25 - 4:45	Lightning talks (assuming 5 mins plus questions unless specified): 1. Eslam Al-Hersh: GWAS cross-species analyzer 2. Marina Pellegrini: Self Incompatibility in perennial ryegrass (<i>Lolium perenne</i>) 3. Dan Smith: Stepping into grass Evo-Geno
after 5	Reconvene in Scholars

After the end of the sessions we will retire to Scholars to continue the discussions. If you couldn't make the workshop, you would still be welcome to join at Scholars.

Posters in IBERS-0.31 (space for more - so if you have one gathering dust somewhere, why not bring it along!):

1. **Sara Rassner:** Geo-Carb-Cymru - harnessing the power of microbes to enhance geological carbon storage and geothermal energy in Wales
2. **Nicholas Dimonaco:** The Prediction of Lethality in Fly Mutants using Machine Learning
3. **Keiron O'Shea:** Diagnostic Prediction of Pouch of Douglas Obliteration from Dynamic Transvaginal Sonographic Video using Long Term Recurrent Convolutional Neural Networks
4. **Marie Neal:** TBA
5. **Tom Hitch:** Investigation of the rumen virome