PEPMOB to do list for next two months – 07/06/2017

Calculations:

* Ovalb fuckup factor
* Qconcat experiment and calculations
* amino acid analysis
* insoluble protein assays

Additional analyses:

* multiple regressions
* timeframe analysis
* missing protein analysis
  + what proteins are most strongly correlated with each other?
    - some photosystems / ATP synthase proteins have no Lys or Arg so aren’t picked up by the MS. Can infer their abundance though from stoichiometries.
* LAI work

Annotations:

* check annotations for:
  + photorespiration
  + glutathione-s-transferases
  + top 200 proteins (Steve has done a lot of these checks to design qconcat protein)

Website:

* Steve will talk to Adam
* Create powerpoint slides with ideas
* Will need to write code which onclick outputs data in the right format for HighPlots to use

Coding / tool development:

* fix R2 and pval output code to not use duplicated values (test df < 36)
* finish downloading climate data
* comprehensive documentation
* pretty tools for outputting neat figs and stats

Paper writing:

* write letter to editor
* write abstract
* figures
  + captions
* supplementary info
  + most of the methods are in Aspinwall ms
  + need details about all the calculations and calibrations

Titles:

* euc MS title
  + “Leaf proteogeography of the Australian Eucalypts” ?
* Website title
  + Protein, scape, geography

Other:

* get cumulative abundance vs abundance rank curves for other organisms (yeast, mammalian cell)