Xenbase Summer 2017 Newsletter

Xenbase launched 4 new features (May 2017, Xenbase v 4.3).

1. NEW Interactive RNA-seq temporal expression graphs.
    - Incorporates expression data from *X. laevis* genome paper in Nature, Session et. al. (2016)
    - Graphs transcripts per million (TPM) values vs. developmental stages: NF stage 8-40.
    - Plots *X. laevis* L and S homeologs.
    - Access via Gene Page/Expression tab. Example: *bmp4*
    - *Links from Expression menu and homepage tiles* &*Tool to add/map gene lists coming soon*
        - ✓ Click the thumbnail graph to open.
        - ✓ Use dialogue boxes to add additional genes.
        - ✓ Graphs can be saved in svg format.
        - ✓ Expression values plotted as either raw or log2.
        - ✓ Mouse over a data point to display the value/stage.
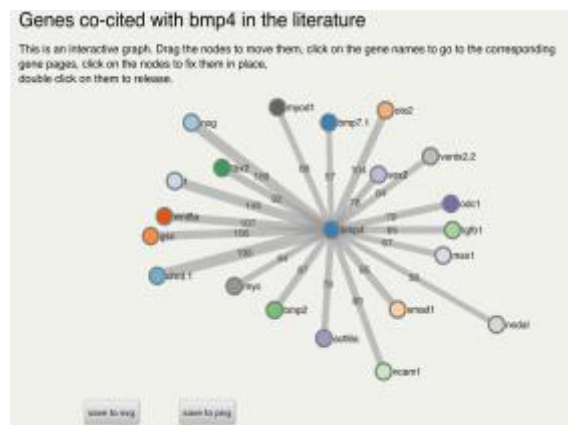

2. View the latest '*Xenopus* Research Articles'
    - ✓ Top right hand corner of above Announcements.
    - ✓ Updated weekly

3. NEW Interactive gene-interaction visualization.
    - ✓ Access via Gene Page Summary or Interactants tab e.g., *bmp4*
    - ✓ Interaction is determined based on co-citation in research articles.
    - ✓ Graph can be saved in png and svg format.
    - ✓ Graph shows top 20 genes: scroll to show next 20.
    - ✓ Number on edges indicate number of co-citations.
    - ✓ Click to move a gene/node, double click to release it.

4. *Xenopus* Article Page, now includes **a list of references** cited in the paper (when available).
    - ✓ Use the [+] [-] to toggle list.   * Links to PubMed and Xenbase Article Pages.
    - ✓ e.g., Wagner et al PLoS Genet. May 1, 2017; 13 (5): e1006757.