

April 29, 2008 Paper 4 Lehner *et al.* 2006.

Systematic mapping of genetic interactions in *Caenorhabditis elegans* identifies common modifiers in diverse signaling pathways.

Presentations for the paper on Tuesday, April 29:
(subject to revision)

- 1) – Overview, genetic interaction screens, rationale (introduction)
- 2) – Results, first section (design of the screen; Fig. 1)
- 3) – EGF pathway – design and rationale. Table 1 (top), EGF, Suppl. Table 1)
- 4) – EGF results – Fig. 2 and Suppl. Table 3
- 5) – "Core EGF interactors" and testing them (Fig 2 and Table 2).
- 6) – Global interaction map (general discussion)
- 7) – Chromatin-modifying Figure 3 – six hub genes [3 paragraphs]
- 8) – Fig. 4. – hub gene mutations enhance *vab-1(e699)* and *dpy-20(e1282)* [next paragraph]
- 9) – hub genes are conserved
- 10) – Discussion: interaction networks, hubs and disease. Fig. 5.