**Nystul Lab Quarantine Policy and Procedure**

All stocks brought into the lab must be quarantined. This includes stocks obtained from other labs at UCSF and from stock centers. In general, stocks should be quarantined using the “standard procedure” outlined below. However, stocks obtained from the Spradling Lab or from the Bloomington Stock Center may be quarantined using the “low-risk procedure” while stocks from labs with known mite problems must be quarantined using the “high-risk procedure.”

**Standard Procedure**

1. When you receive the vials in the mail, enter the stock information into your database and place the vials in a tray in the quarantine area.
2. If the vial arrives with live adults, toss them to a fresh vial, if not, toss adults to a fresh vial as soon as they eclose. Keep the original vial.
3. Toss adults to a fresh vial everyday, ideally for three consecutive days, though three days out of five consecutive days is acceptable. Discard the old vial each day, but keep the original vial.
4. On the fourth toss, leave the adults in the vial until it has “taken” (i.e. many eggs have been laid, larvae are crawling around, and the next generation is likely to come up), usually 4-7 days and then toss the adults to a fresh vial or bottle. It is important to toss the adults to a fresh vial before the next generation ecloses.
5. When the generation from the fourth toss ecloses, check the original vial for mites. If none are found, you may work with flies from the fourth or fifth toss in the fly room but do not store flies or fly crosses in the fly room for at least six weeks from the date the stock arrived.
6. After six weeks, recheck the original vial and all other copies of the stock for mites. If none are found, the stock can be considered mite free and used normally in the fly room.

d. 0

d. 2-4

d. 5

d. 15

d. 42

Stock arrives. Toss adults to fresh vial

Toss adults to fresh vial at least two more times

Toss adults to fresh vial and leave them there

d. 1

Toss adults to a fresh vial

When adults eclose, toss to a fresh vial

If original vial is mite-free, flies can be worked with, but not stored in the fly room

If all vials are mite-free, flies can be brought out of quarantine

~d.10

**Low-risk Procedure**

1. Follow steps 1-3 above. After the third toss, you may work with flies in the fly room but do not store flies or fly crosses in the fly room for at least two weeks from the date the stock arrived.
2. After two weeks, recheck the original vial and all other copies of the stock for mites. If none are found, the stock can be considered mite free and used normally in the fly room.

**High-risk Procedure**

Same as standard procedure except that flies may not be brought into the fly room for any reason during the six week quarantine period.