## **Institute for Systems Biology Dual-Color Hybridization Protocol**

- Take 5 ug of total RNA or 0.5-1 ug of polyA alexa labeled probe per dye color and combine in an eppendorf tube.
- Speed-vac the samples down to less than 5 ul (try not to dry them completely)
- Add 40 ul of hybridization buffer to probe and mix well by pipeting.

## **Hybridization Buffer**

36.2 ul DIG Easy Hyb 1.8 ul SS DNA 1.8 ul tRNA 0.13 ul dT(50)

- Heat probe to 95 degrees C for 3 minutes and put immediately on ice for 2 minutes.
- Pipet probe onto slide and cover with a clean coverslip.
- Hybridize in a humid chamber at 42 degrees C for 15 hours.
- Remove coverslip by placing in a shaking petri-dish with 30 mls of 42 degree 1X SSC,0.2%SDS for 5 minutes.
- Remove slide, wipe the back, and place in Molecular Dynamics Automated Slide Processor for further washing.

## Washes:

- 2 x 5 minute wash in 1X SSC, 0.2% SDS (3ml) at 42 degrees C
- 2 x 5 minute wash in 0.1X SSC, 0.2% SDS (3ml) at 25 degrees C
- 2 x 5 minute wash in 0.1X SSC (3.5ml) at 25 degrees C

Remove slide from processor, dip in water for 2 seconds and blow dry with compressed air.