

# raPOOLs

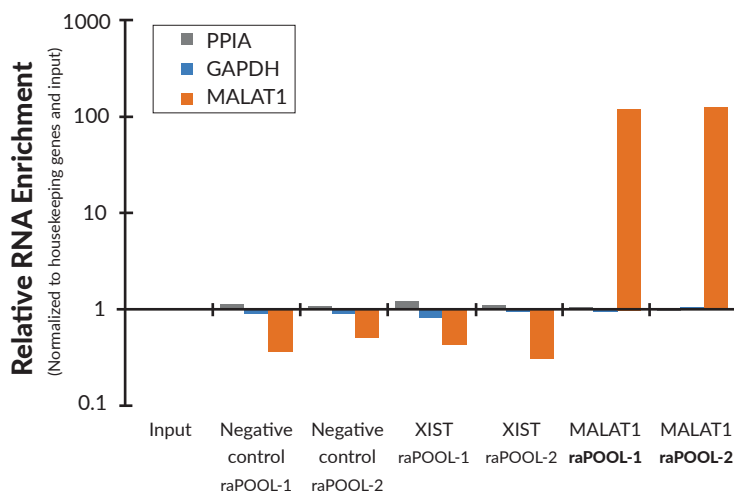
## Robust & Targeted RNA Capture

RNA antisense pools (raPOOLs) provide **robust and specific isolation** of targeted RNA from cells.

**Complex pooling** of optimally designed biotinylated DNA probes maximizes coverage of targeted RNA, enabling robust enrichment.

raPOOLs enable identification and characterization of interacting nucleic acids and proteins of targeted RNA.

### Targeted robust RNA Capture with raPOOLs



lysates of HeLa S3 cells were incubated with two different raPOOLs against: **37 °C, 4 h**

- human MALAT1 (targeted RNA)
- human XIST (control)
- *E. coli* LacZ (neg. control)

RNA quantified by real-time qPCR of:

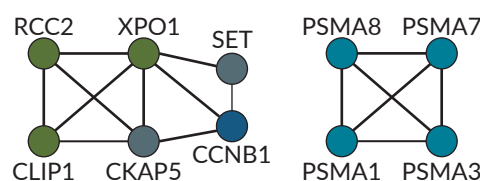
- human MALAT1 (targeted RNA)
- PPIA / GAPDH (controls)

Both raPOOLs against MALAT1 resulted in **a 100-fold enrichment of target RNA.**

→ raPOOL capture leads to reproducible pulldowns of target RNA.

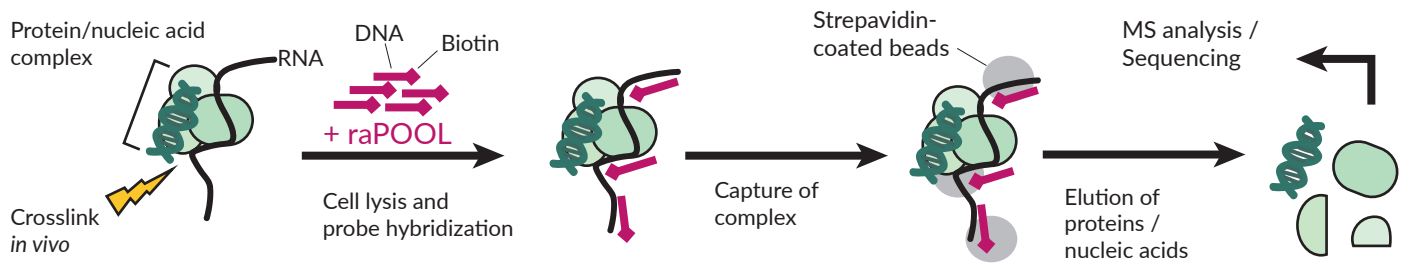
### raPOOLs unveil interactome and lncRNA function

raPOOLs enable pulldown and analysis of proteins interacting with long non-coding RNA, LINC00152.



Pulldown of LINC00152 and its associated proteins revealed two networks in mitotic progression: **Microtubule cytoskeleton organization**, and **Ubiquitin- protein ligase activity**, Nötzold et al., Scientific Reports, 2017.

## raPOOL Workflow



## Applications

Large scale isolation of RNAs from cell lysates

- long non-coding RNAs
- premature / messenger RNAs

Co-isolation of interactome to study

- associated proteins / nucleic acids

## raPOOL Benefits

- ✓ highly efficient and specific
- ✓ Affordable solution for customized biotinylated probes
- ✓ customizable for every RNA
- ✓ **hundred-fold enrichment** of target RNA
- ✓ HPLC-purified - low risk of contaminants
- ✓ reproducible and consistent level of RNA enrichment

- Available formats:

Probes alone with nuclease-free water

2 nmol (20 rxn)

5 nmol (50 rxn)

10 nmol (10 rxn)

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