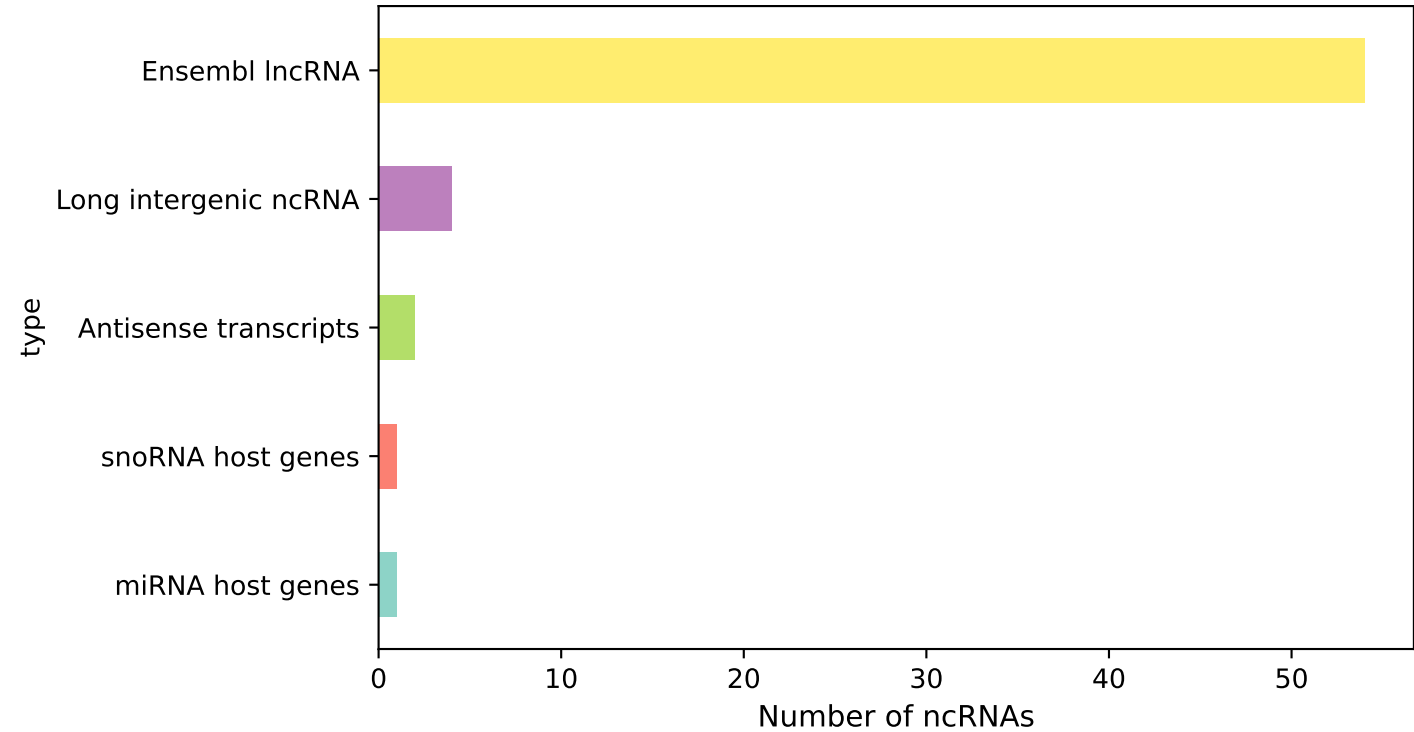


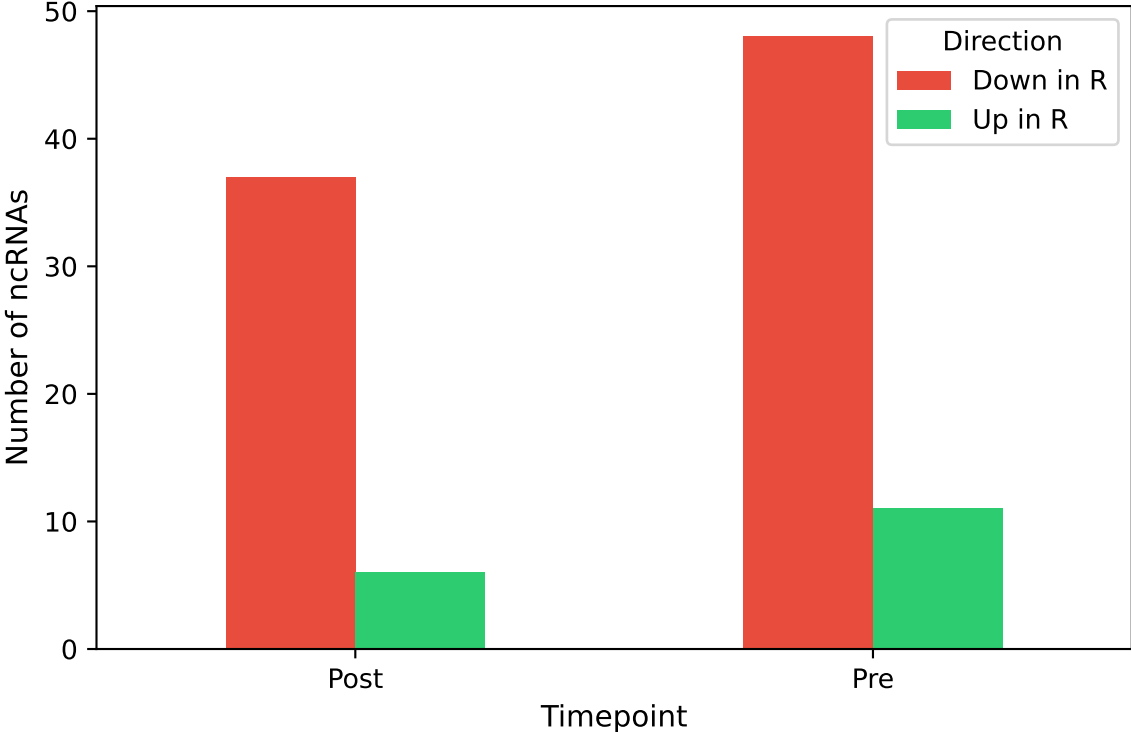
NON-CODING RNA ANALYSIS: Regulatory RNAs in Treatment Response

lncRNAs and miRNA host genes differentially expressed in R vs NR

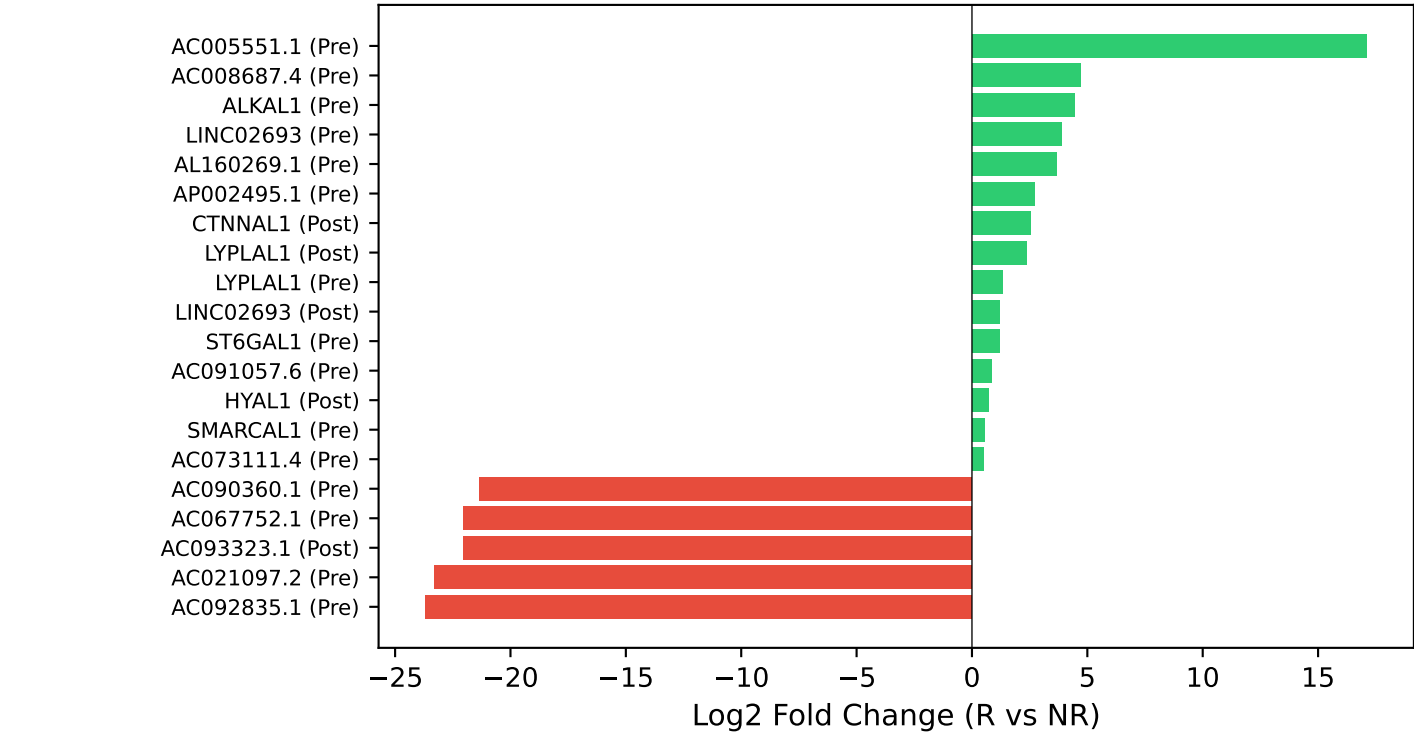
A. ncRNA Types Detected



B. Significant ncRNAs (padj < 0.05)



C. Top ncRNAs by Expression Change



D. Key Findings

NON-CODING RNA ANALYSIS

SUMMARY:

- Total ncRNAs detected: 62
- Significant (padj<0.05): 61

KEY FINDINGS:

1. LINC GENES (Long Intergenic ncRNAs):
 - 4 detected
 - May regulate nearby protein-coding genes
 - LINC02693: Consistently UP in responders
2. MIR HOST GENES:
 - 1 detected
 - MIR1915HG: DOWN in responders (-5.3 LFC)
 - May affect miRNA-mediated regulation
3. DYNAMIC ncRNAs:
Some ncRNAs switch direction during treatment - potential treatment-response markers

BIOLOGICAL IMPLICATIONS:

ncRNA dysregulation in non-responders may indicate:

- Altered gene regulation programs
- Different epigenetic states
- Treatment resistance mechanisms

VALIDATION NEEDED:

- qRT-PCR validation of top candidates
- Functional studies (knockdown/overexpr)
- Independent cohort replication